



BERKELEY FARMS, Inc. P.O. Box 8465 • Emeryville • California 94662-0465 • Telephone (510) 420-5600

February 23, 1993

Juliet Shin Hazardous Materials Specialist ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY 80 Swan Way, Room 200 Oakland, CA 94621

RE: 23555 Saklan Avenue, Hayward, California Your letter of January 29, 1993 to Frank E. Sabatte

Dear Ms. Shin:

In response to your request, please be advised that we have engaged Paradiso Construction and KEI to prepare a work plan for the above referenced property. Upon approval of said plan, we will be prepared to perform the work required.

We are enclosing a copy of the October 10, 1990 Soil and Ground Water Investigation Report which was prepared for the site.

If you have any further questions, please call me at 420-5636.

Very truly yours,

Vice President - Finance BERKELEY FARMS, INC.

NJA:blh encl.



October 10, 1990

Mr. Tim Blaney Berkeley Land Company 1211 Newell Avenue, Suite 120 Walnut Creek, CA 94596

Dear Tim:

Certified Environmental Consulting, Inc. is pleased to provide the attached report on the Phase II work. CEC recommends that a copy of this report be sent to The County of Alameda and The San Francisco Regional Water Quality Control Board. If you have any questions, please do not hesitate to contact us.

Sincerely,

William J. Corniis, Ph.D., C.I.H.

Vice President

Michael T. Noble, C.I.H., REA

Vice President

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CERTIFICATION

89-57-237

This report was prepared by Certified Environmental Consulting, Inc. under the professional direction and review of the person whose name is shown below.

The recommendations and professional opinions presented herein, within the limits prescribed by the client, were prepared in accordance with generally accepted professional engineering and industrial hygiene practice. There is no other warranty, either expressed or implied.

William J Cornils, Ph.D., C.I.H.

EXECUTIVE SUMMARY

As required by State and local regulations, the Berkeley Land Company removed an underground fuel tank located on their property at 23555 Saklan Road, Hayward, California. The removal occurred in June 1988. Analysis of the excavated soil indicated total petroleum hydrocarbon concentrations of 57 ppm in the gasoline range and 140 ppm in the diesel range. A letter dated October 13, 1989, from the Alameda County Department of Environmental Health, indicated that two samples collected from the bottom of the excavation contained hydrocarbon levels of 2076 and 24,144 ppm. The County's letter requested Berkeley Land Company to conduct a preliminary assessment to evaluate the extent of the soil and groundwater contamination. Information from the preliminary assessment would be used to assess the need for additional actions at the site. Prior to beginning the assessment the County requested that a work plan be prepared which complied with the requirements outlined in the October 13, 1989 letter.

Berkeley Land Company contracted with Certified Environmental Consulting, Inc. (CEC) to do the preliminary assessment. On February 27, 1990 CEC started work on phase I of the preliminary assessment. Using existing information and minimal exploration at the site, CEC gathered the necessary information to prepare the work plan required by the County. On March 26,1990 the results and the work plan were provided to Berkeley Land Company in a report titled "Initial Site Survey and Preliminary Assessment Plan for Hayward Site."

Sacritical Starting and Startin

On May 21, 1990 field work on phase II of the preliminary assessment was started. The objectives of phase II were to install monitoring wells and bore holes to accurately determine the groundwater gradient and to assess the extent of soil and groundwater contamination.

The results of the phase II work determined that the groundwater gradient is in a southwest direction. All soil and water analyses up gradient from the tank excavation site showed non detectable concentrations of petroleum hydrocarbons. Soil in two drill holes immediately down gradient of the excavation site were contaminated with diesel and gasoline components. Groundwater analyzed in the down gradient direction from the excavation site did not show significant levels of petroleum hydrocarbon contamination.

The conclusion is that the source of the contamination is from the site and not from an offsite source. It was also concluded that the contamination has reached the western edge of the property and is probably moving onto neighboring properties.

It is recommended that the areas of highest contamination be remediated. It is further recommended that the three existing wells on this site be destroyed. The remaining wells that were installed during this investigation must be sampled quarterly.

It will be to the best interest of the Berkeley Land Company if these recommendations are acted on immediately.

SECTION 1.0

INTRODUCTION

1.1 BACKGROUND

In June 1988 Berkeley Land Company removed an underground fuel tank located on their property at 23555 Saklan Road, Hayward, California. The removal of the tank was required by state and local requirements. Berkeley Land Company and the previous owner had stored gasoline in the tank. Berkeley Land Company has records from their fuel supplier which indicate that the only product purchased for storage in the tank was gasoline. The previous owner has indicated to Berkeley Land Company and their attorney Mr. Ronald Hufft that the tank was not used for several years before the sale of the property and then was only used for gasoline storage.

Two composite soil samples collected by Kaprealian Engineering, Inc. on November 7, 1988 from approximately 130 cubic yards of stockpiled soil at the site had total petroleum hydrocarbon concentrations as gasoline (TPH-G) at 57 parts per million (ppm) and total petroleum hydrocarbon concentrations as diesel (TPH-D) at 140 ppm. There was no benzene, toluene, ethylbenzene or xylene detected in the samples.

The Alameda County Department of Environmental Health wrote Berkeley Land Company on October 13, 1989 informing them that analytical results of two samples taken from the tank pit indicate a hydrocarbon level of 2076 ppm and 24,144 ppm (see Appendix A). The

County's letter stated that it considered this to be an unauthorized release requiring further investigation. A preliminary assessment was requested to determine the extent of soil and groundwater contamination. According to the County the information gathered by this investigation will be used to assess the need for additional actions at the site.

1.2 SITE DESCRIPTION

The site is located at 23555 Saklan Road, Hayward, California. The nearest cross street is Middle Lane. A site location map is shown in Figure 1.1.

The Saklan Road site covers an area approximately 40,000 square feet. Each side of the site is 200 feet long (see Figure 1.2). There are no structures on the site except a 8 by 10 foot wooden shed owned by Berkeley Land Company and a mobil office owned by Quality Tow. An 8 foot high chain-link fence surrounds the property and divides it into two areas.

Quality Tow rents the larger of the two areas for storage of automobiles. This portion of the property is covered with dirt. A 4 inch concrete slab was encountered under this dirt at some of the test locations.

The smaller area on this property is covered with 6 to 8 inches of concrete. It was in this area that the underground tank was removed and the production well with the floating product was discovered (see Figure 1.2). Berkeley Land Company uses this area to store trucks.

The area immediately adjacent to the property is mixture of residential and light industry.

To the east, directly across Saklan Road, is a residential area consisting of single family homes. It appears that many of these residential properties have their own water wells.

The other areas adjacent to the Saklan site are light industry consisting of trucking terminals, a motorcycle repair shop, a sheet metal shop, etc. The regulatory file review discussed in the phase I report of March 26, 1990, identified nine properties within a few blocks of the Saklan site which had a potential for having leaking underground tanks.

1.3 PREVIOUS WORK FROM PHASE I OF THE PRELIMINARY ASSESSMENT

On February 22, 1990 Certified Environmental Consulting, Inc. (CEC) provided Berkeley Land Company with a proposal to do phase I of the required preliminary assessment. The goal for phase I was to collect information concerning the groundwater gradient and contamination using the existing wells and screening techniques such as the vapor probe and hand augers. The information collected in phase I would be used to prepare a work plan which complies with the requirements of the October 13, 1989 letter from the County. The phase I part of the assessment was conducted on February 27, and March 1, 1990.

The phase I work indicated a water gradient flowing towards the northwest. This was determined from the three existing wells. After investigating the construction of these three wells, the accuracy of the groundwater gradient calculation was questionable. The wells were constructed differently and were installed to different depths. Therefore the wells

could be indicating the hydrostatic pressure of different portions of the same aquifer or even different aquifers. Additionally, 2.2 feet of diesel was observed floating on the surface of the water in the production well near the tank excavation. This had been previously noted by Berkeley Land Company. This material was analyzed and determined to be 100 percent diesel number 2.

The vapor probe of the property detected hydrocarbon vapors at various locations throughout the site. Hand augered borings were also drilled at the two locations shown in Figure 1.3.

Drill hole "A" was located in the center of the excavation site. This boring was drilled to a refusal depth of 10 feet. At the 10 foot level a very hard layer was encounter. This probably was the concrete pad for the excavated tank. The analysis of the soil at this level indicated a TPH-D concentration of 40 ppm. The TPH-G concentration was less than detectable limit of 10 ppm. The concentration of the gasoline components benzene, toluene, ethylbenzene, and xylene (BTEX) were ND<3, 15, 6, and 13 parts per billion (ppb) respectively.

Drill hole "B" was located 10 feet north from the edge of the excavation. Contamination in this drill hole was first encountered at 13.5 feet. The TPH-G and TPH-D concentrations were ND<10 ppm, 40 ppm respectively. The BTEX concentrations were all less than the detectable levels of 3 ppb. At 15.5 feet the TPH-G and TPH-D concentrations were

ND < 10 and 550 ppm respectively. Both benzene and toluene were less than the detectable level of 3 ppb. Ethylbenzene and xylene were found at concentrations of 4 and 10 ppb respectively. The analytical information on drill holes A and B is summarized in Table 1.1.

The detailed results of the phase I work were presented in a report titled "Initial Site Survey and Preliminary Assessment Plan for Hayward Site" which was sent to the Berkeley Land Company on March 26, 1990. This report also complied with the requirements for submitting a Work Plan as required in the County's letter of October 13, 1989.

1.4 PROGRAM OVERVIEW AND OBJECTIVES

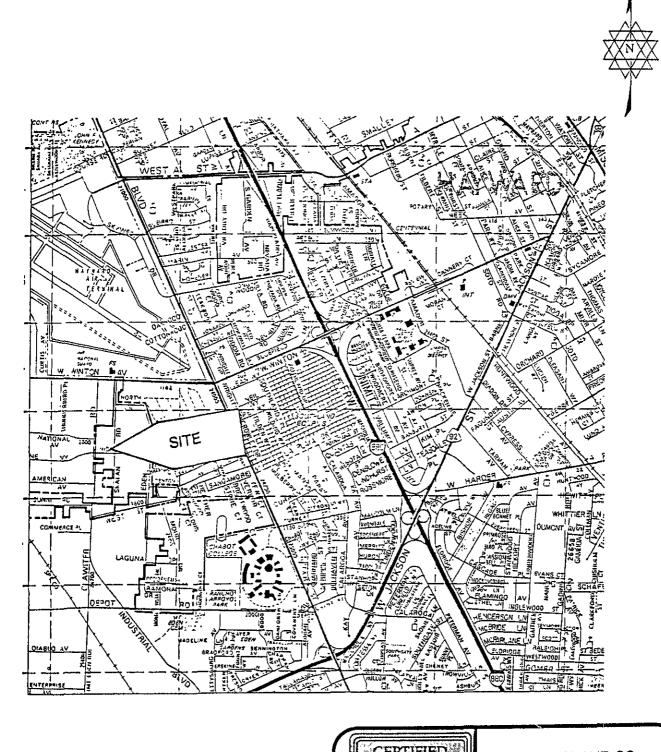
As previously discussed the phase I portion of the preliminary assessment was to gather readily available information on the site and to prepare a work plan for the characterization of the soil and water contamination. The characterization was carried out under phase II of the preliminary site assessment.

The following were the objectives of phase II:

- Install four monitoring wells to accurately determine the groundwater gradient.
- Using these four wells and additional wells as required, characterize the groundwater contamination.

• Collect soil samples during the installation of the monitoring wells and the additional soil borings to characterized the soil contamination.

Originally CEC recommended that privately owned water wells in the surrounding area also be sampled for contamination. At the direction of Berkeley Land Company's legal counsel it was decided no to do the private well sampling at this time.



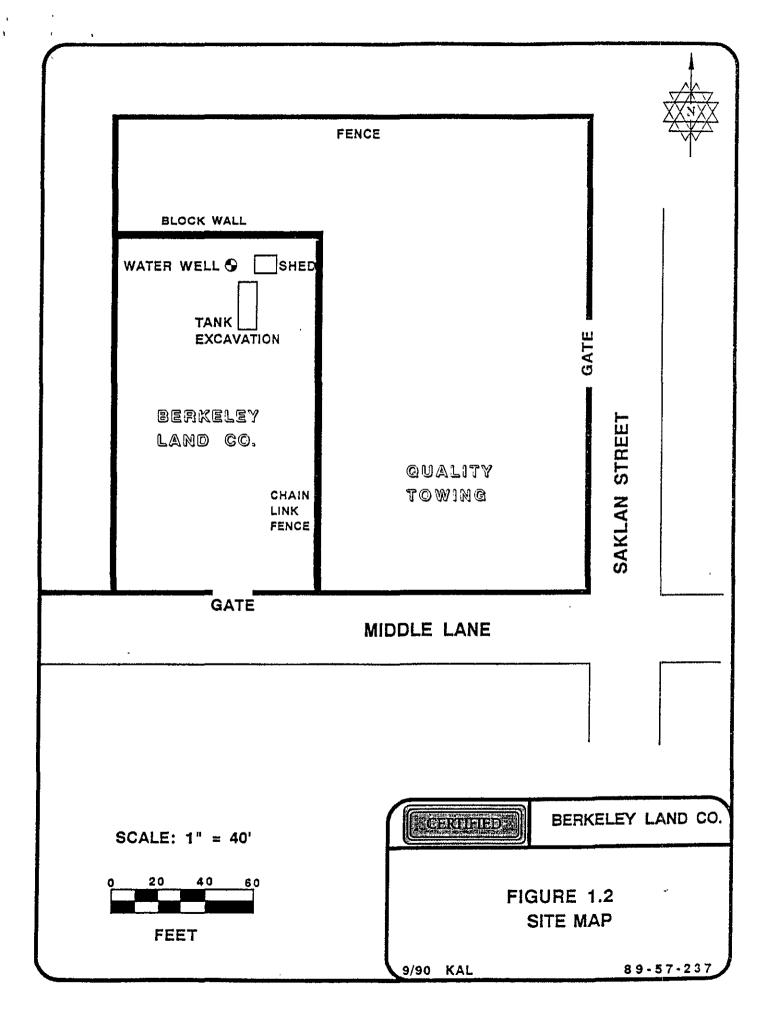


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FIGURE 1.1 - SITE LOCATION MAP

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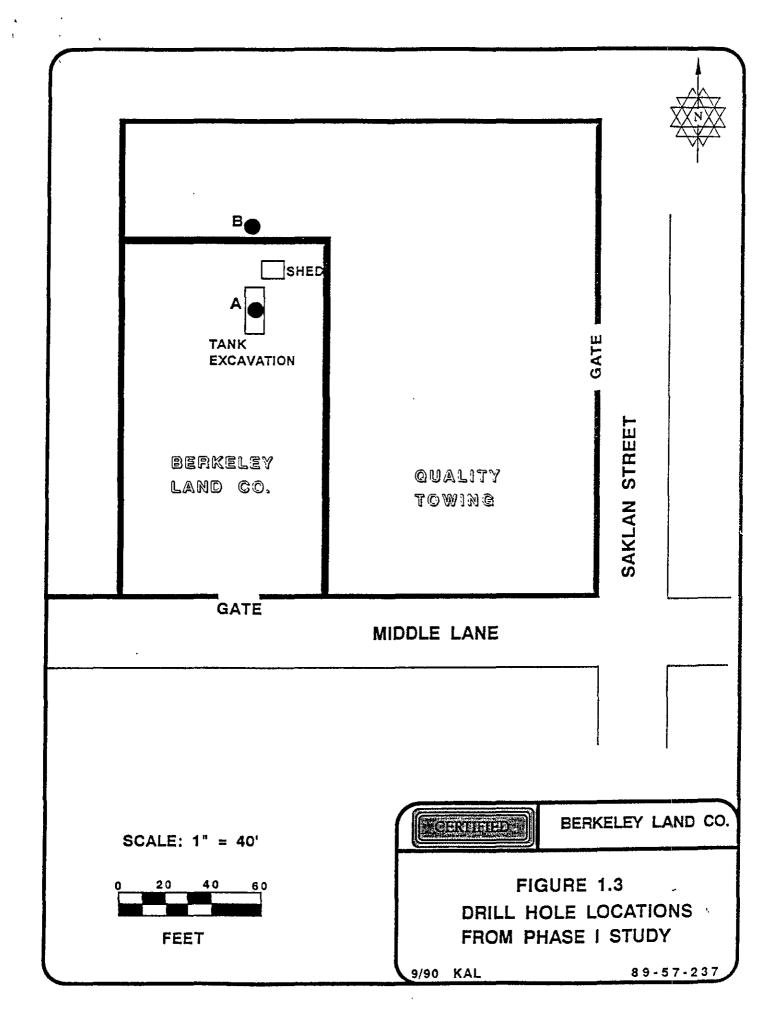


TABLE 1.1
ANALYTICAL RESULTS FROM SOIL SAMPLING CONDUCTED DURING PHASE I OF THE PRELIMINARY ASSESSMENT

BC-0227- A ND<10 40 ND<3 15 6 13 A120 BC-0227- B ND<10 40 ND<3 ND<3 ND<3 ND<3 B163	Sample Number	Driil Hole	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylene (ppb)
BC-0227- B ND<10 40 ND<3 ND<3 ND<3 ND<3	3C-0227- 1120	Α	ND<10	40	ND<3	15	6	13
	3C-0227-							

SECTION 2.0

PROCEDURES

Details on the following procedures were discussed in the work plan prepared by Certified Environmental Consulting, Inc. (CEC). The date of the work plan was March 26, 1990.

2.1 SUBSURFACE INVESTIGATION

To characterize the groundwater contamination and to determine the groundwater gradient, it was decided to install five monitoring wells. Four of the monitoring wells were positioned as close as practical to the four corners of the property. All four monitoring wells were also constructed inside the fenced area to provide additional protection from possible tampering. The positions of these four wells are shown as MW-1, 2, 4, and 5 in Figure 2.1.

The main purpose for the four wells was to accurately determine the groundwater gradient. Secondly, the wells were used to measure groundwater contamination both up gradient and down gradient at the site. Such information would indicate if contamination was being carried onto the property from other sources or if contamination was being carried off site to neighboring properties.

The fifth monitoring well (MW-3) was positioned within 10 feet of the tank excavation in the down gradient direction (see Figure 2.1). This fulfills the requirement of installing a monitoring well in the verified down gradient direction within the immediate vicinity of the site as required by the County in their letter of October 13, 1989. This well has been used to determine if contamination is migrating from the tank excavation.

Soil borings were also made during phase II of this investigation. These borings were done to characterize soil contamination. The boring locations were selected to determine if potential soil contamination was the result of off-site or on-site contaminant sources.

During both the soil boring and the monitoring well installation, undisturbed soil samples were collected at least every 5 feet. These samples were collected for physical and/or chemical analysis. Additionally, field notes were kept describing field activities (see Appendix B) and soil boring logs were kept to show the different layers of material encountered during the drilling process (see Appendix C).

2.2 DRILLING PROGRAM

The drilling was done by Bay Land Drilling Company using both CME 55 and 75 drill rigs with nominal 8 and 10 inch OD hollow-stem augers. Bay Land Drilling Company is a licensed drilling contractor in the State of California.

The drilling operation was under the supervision of Richard C. Kent. Mr. Kent is a Registered Geologist in the State of California (No: 4231).

The drilling process for both the monitoring wells and soil borings was identical except the bore hole diameter for the wells was 10 inches rather than 8 inches so that the 4 inch well casing could be accommodated. Drilling began by identifying the well or bore hole location. Because concrete covered some of the property, a hole had to be cut before the drilling could be started.

Next, the hole was drilled to a depth 4 to 5 feet. Without raising the auger flight from the hole, the plug in the bottom of the auger was removed. Through the center of the auger a sampler was pushed 18 inches in front of the drill head to collect an undisturbed soil sample for physical and/or chemical analysis. The sampler was a standard penetration test split-spoon sampler, nominal 2 inch diameter, with three brass retainers.

The number of blows to drive the sampler into the soil using a 140 pound drop hammer, was recorded to determine the density of the material sampled. Following removal of the sampler the plug was reinstalled and the drilling was resumed. This drilling and sampling regime continued until the maximum depth was reached. Maximum depth was 15 feet for bore holes and 25 to 30 feet for monitoring wells. During the drilling, special attention was given to the avoidance of cross contaminating underlying aquifers. When boring in a zone of saturated permeable material, the geologist would cease drilling if 5 feet of impermeable material, such as clay, were reached. The clay layer was considered an aquiclude separating the shallow and deep aquifers and was not penetrated.

After the sampler was removed from the boring, it was opened and the three brass retainers were removed. The ends of the middle retainer were sealed with aluminum foil and plastic caps. Tape was wrapped around the caps to further seal the retainer. The retainer was marked with a unique sample identification number, sealed in a plastic bag and placed in an ice chest kept at 4°C for delivery to a State certified laboratory for chemical analysis. Chain-of-custody records were completed for each sample delivery

In general soil samples from every 5 foot interval were analyzed for chemical constituents, although some discretion by the site geologist was used.

The soil in the remaining tubes was extruded and examined on-site by the geologist for soil type and the obvious presence of contamination. The presences of obvious contamination was verified using an organic vapor meter. The soil and soil cuttings generated during drilling were classified using the Uniform Soil Classification System. All observations were recorded in the boring logs.

Before another sample was collected, the sampler and brass retainers were decontaminated by steam cleaning, or an Alconox solution wash followed by tap water and deionized water rinses.

After the cuttings were evaluated by the geologist, they were placed in drums and sealed.

A label was affixed to the drum describing its contents, name of a contact person, and

telephone number. The drums were kept in a secure area to prevent tampering by unauthorized persons. Final disposition of the soil was dependant on the sample results. Abandoned sample bores were sealed with bentonite or a bentonite concrete grout mix.

All drilling equipment was steam cleaned before and after drilling of each hole. Only clean water from a municipal supply was used for cleaning the drilling equipment.

2.3 INSTALLATION OF GROUNDWATER MONITORING WELLS

Some of the exploratory borings developed into groundwater monitoring wells. The borings used for monitoring well construction were deeper and a larger diameter.

When the appropriate boring depth was reached, the plug at the bottom of the augers was removed. The on site geologist then designed the well construction. Depending on the well design, borings were back filled with bentonite pellets prior to installation of the well casing. The geologist designed and installed a 4 inch PVC well casing. The use of glue was prohibited because of its possible interference with the analytical tests. The casing was cleaned and then lowered through the center of the augers. Clean sand was added around the outside of the casing as the augers were slowly lifted from the boring. The sand was added until it reached a height of 2 feet above the screened area of the casing.

Next, 2 feet of bentonite pellets was added followed by portland cement. Finally, a water tight locking cap with cover was constructed. The locking cap prevents unauthorized access to the wells. The as-built well construction drawings are shown in Appendix D.

How long a wanting paried?

When the monitoring well installation was complete, the wells were developed using surging techniques. Well development generally suppresses damage to the formation by drilling operations, restores natural hydraulic properties to the adjacent soils, and improves hydraulic properties near the boring so the water flows more freely in the well.

During development, pH, specific conductance, and temperature of the return water was measured. Well development was continued until these parameters stabilized and the water was at its maximum possible clarity.

The water generated during the development process was placed in 55 gallon drums and sealed. A label was affixed to the drum stating what it contained, name of a contact person, and telephone number. The drums were kept in a secure area to prevent tampering from unauthorized persons. Final disposition of the water depended on the sampling results.

2.4 LEVELING WELLS AND MEASURING DEPTH TO GROUNDWATER

To determine the groundwater gradient, the relative depth to groundwater for each monitoring well and their location were determined. Using a surveyors level, CEC

engineers determined the height to the top of each well casing. The position on the casing where the height was calculated was marked (not all casings were cut level).

From the point were the casings were marked, the depth to groundwater was measured using an electronic water sensing device. It should be noted that the depth to groundwater measurement was not made until the wells had an opportunity to equilibrate with the aquifer. With this information CEC engineers were able to calculate the relative depth to groundwater. Knowing this and the distance between the wells it was possible to determine GROUNDWATER SAMPLING & How burg a wait affect development? water gradient.

2.5

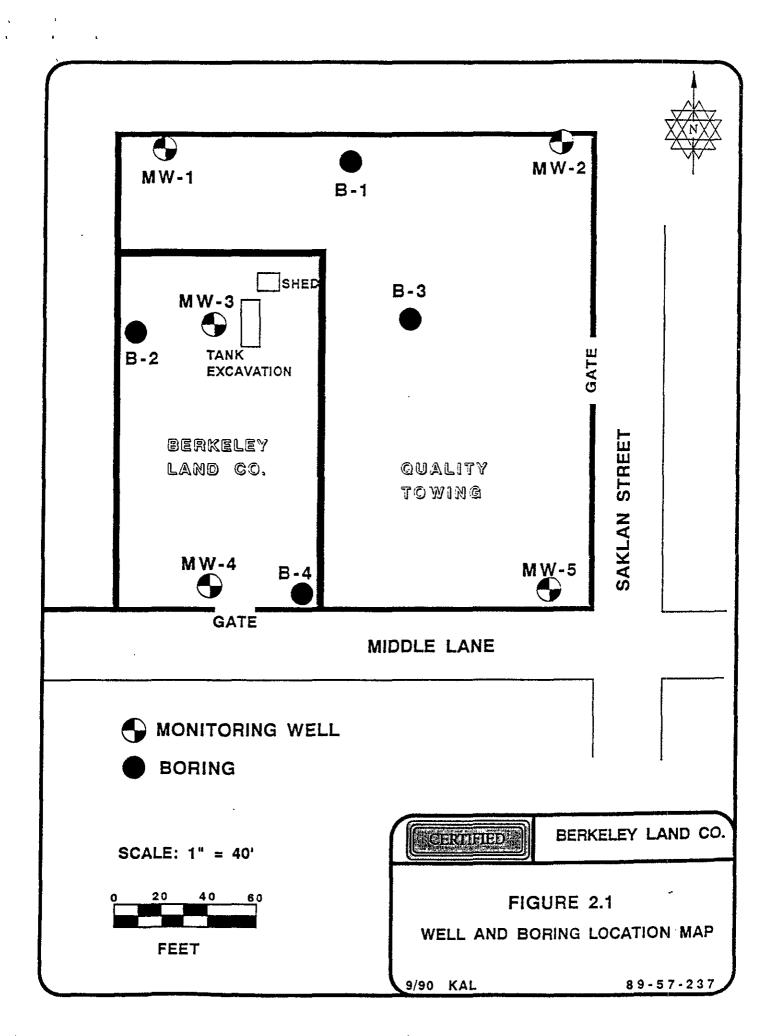
Prior to collecting samples, the wells were purged by pumping at least three well volumes of water. Once the wells had recovered 80 percent of the original water level, water samples were collected using a clean 2 inch bailer. A clean bailer was used for each well.

The water from the bailer was immediately syphoned into a clean 40 mL VOA bottle until the bottle began to overflow. A teflon lined cap was placed on the bottle and the bottle was inverted to check for air bubbles. If air bubbles were detected, the sampling was repeated.

The bottles were labeled with a unique sample number and placed in a ice chest maintained at 4° C. A chain-of-custody form was completed and accompanied the sample to the laboratory.

2.6 LABORATORY ANALYSIS

Both the soil and water samples were analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylene (BTEX). Superior Analytical Laboratory, Inc. of Martinez, California performed the sample analysis. Superior is certified by the State of California to do hazardous waste analysis.



SECTION 3.0

RESULTS

3.1 SITE GEOLOGY

The geology underlying the site was characteristic of the San Francisco Bay area.

This is shown in the drill hole cross sections (Figures 3.1 to 3.3) The drill logs are shown in Appendix C. The clay, to sand to gravel sequences in the upper 7.5' to 8.5' of holes MW-3 and B-1, and most of B-4, are good examples of transgressive/regressive sedimentary sequences. Such sequences develop along beaches as the water and land interface rises and falls over extended periods of time.

The sedimentary sequences in the three previously mentioned holes create an aquifer. Clayrich layers act as sealants while overlying gravel-rich layers provide the porosity and permeability for groundwater storage and movement.

3.2 SITE HYDROLOGY

On June 7, 1990 engineers from CEC leveled the monitoring wells and measured the depth to groundwater. The procedures for determining the groundwater gradient were described in Section 2.0. The field data collected for this determination is presented in Appendix E.

From the field data it was determined that the groundwater gradient was towards the southwest with a slope. Figure 3.4 overlays the gradient onto the site map.

3.3 FIELD OBSERVATIONS OF CONTAMINATION

According to the boring logs in Appendix C, a moderately strong hydrocarbon odor was detected at 15 feet in drill hole B-2 and at 13 feet in drill hole MW-3. In drill hole MW-3 the hydrocarbon odor became very strong at 15 feet. Both of these drill holes are located in the down gradient direction from the tank excavation.

There was no floating product or hydrocarbon odor associated with the water in the monitoring wells. Even drill hole MW-3, in which very strong hydrocarbon odors were detected in the soil during the drilling, had no noticeable odors or floating product.

3.4 ANALYTICAL RESULTS OF THE SOIL ANALYSES

The procedures for collecting the soil samples and the methods used for analysis have already been discussed in Section 2.0. The chain-of-custody sheets and certified laboratory results are found in Appendix F. The data from the certified laboratory results has been summarized in Table 3.1.

Laboratory results indicated soil contamination at approximately 15 feet in drill holes B-2 and MW-3. As discussed in paragraph 3.3, both these drill holes were in the down gradient

Jon soil

direction from the excavation site. All other drill holes sampled during phase II had non-detectable levels of TPH-G, TPH-D, and BTEX.

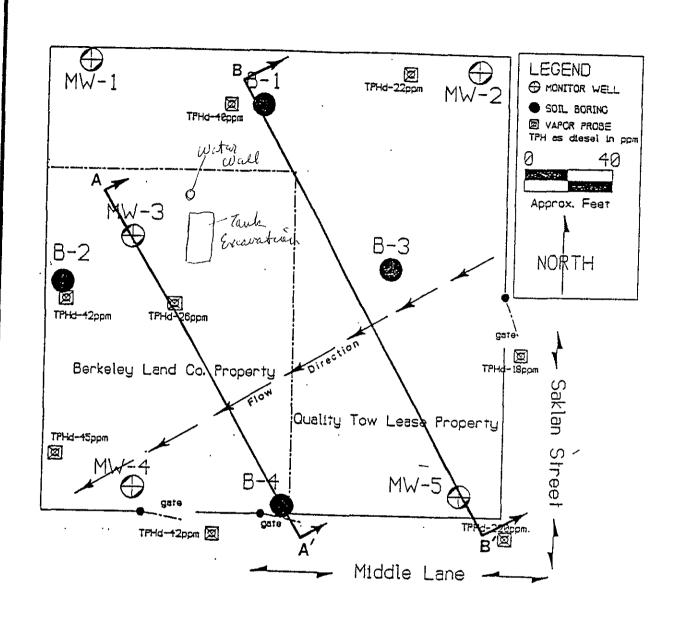
Neither sample from B-2 or MW-3 had detectable concentrations of TPH-G however both had detectable levels of some or all of the four gasoline constituents (BTEX). Drill hole MW-3's BTEX concentrations were 4, 6, 12, and 58 ppb respectively. Drill hole B-2's BTEX concentrations were ND<3, ND<3, 11, and 22 ppb respectively.

Both drill holes had detectable concentrations of TPH-D. The TPH-D levels of MW-3 and B-2 were 250 and 50 ppm respectively.

3.5 ANALYTICAL RESULTS OF THE WATER ANALYSES

The procedures for collecting water samples and the methods used for analysis were discussed in Section 2.0. The chain-of-custody sheets and certified laboratory results are found in Appendix F. The data from the certified laboratory results has been summarized in Table 3.2.

Only the groundwater from monitoring well MW-3 had detectable levels of contamination. The TPH-G, concentration was 0.10 ppm, however the laboratory indicated that there was no gasoline pattern present. The TPH-D, and BTEX components were not detected.



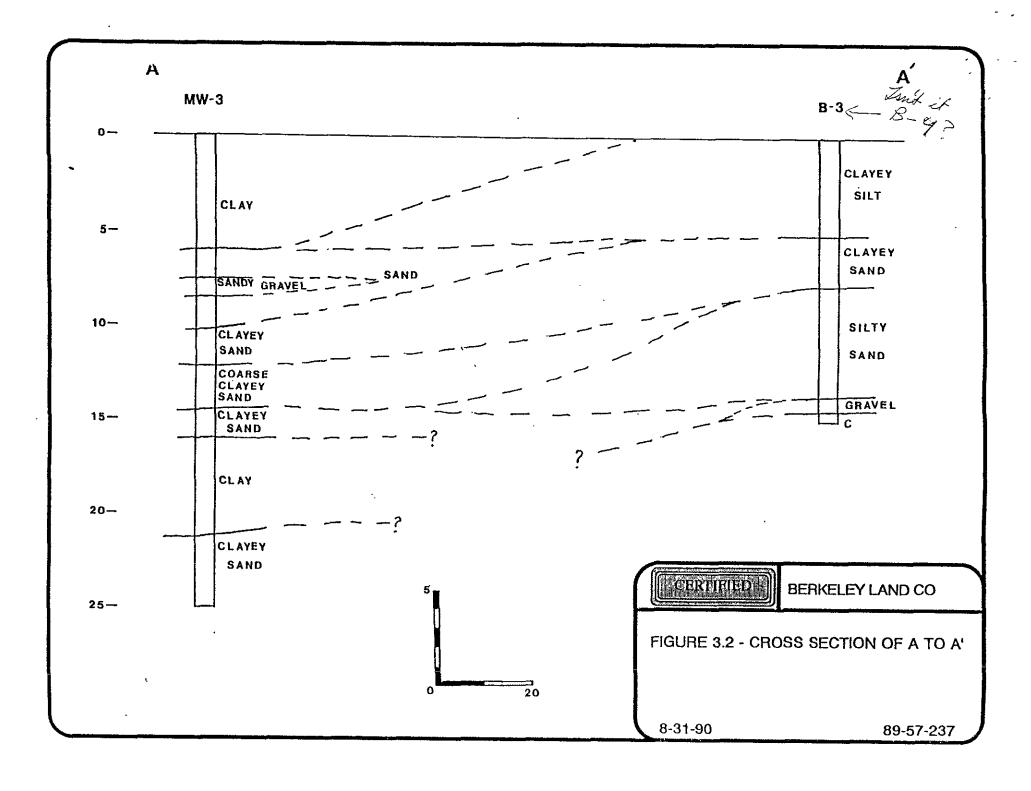


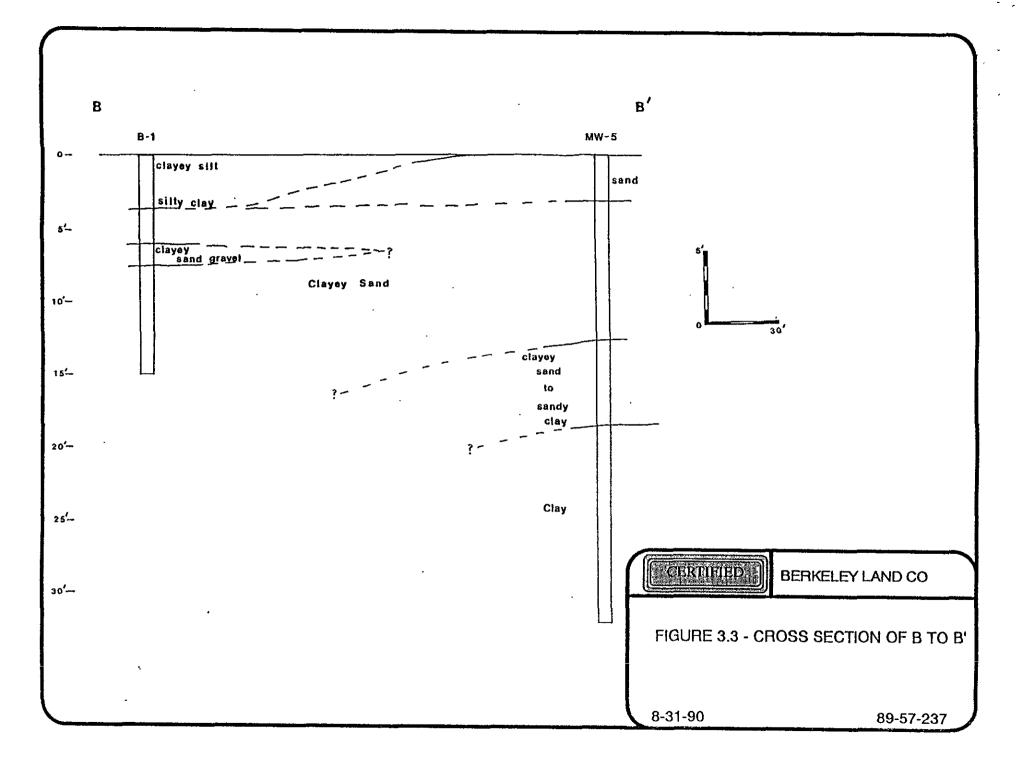
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FIGURE 3.1 - CROSS SECTION LOCATION MAP

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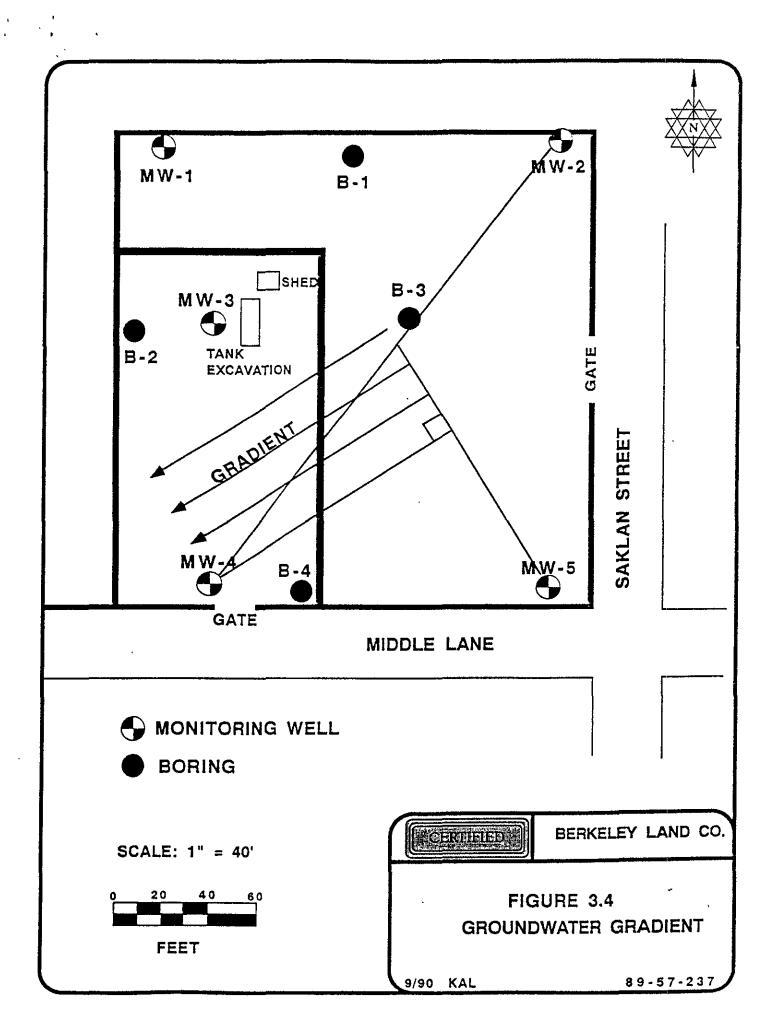


TABLE 3.1
SUMMARY OF THE ANALYTICAL RESULTS FROM THE SOIL SAMPLING
CONDUCTED DURING PHASE II

Drill Hole	Sample Number	Depth (ft)	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylene (ppb)
B-1	S-1	4	N/A	N/A	N/A	N/A···	N/A	N/A
B-1	S-2	6.5	N/A	N/A	N/A	N/A	N/A	N/A
B-1	S-3	. 10	N/A	N/A	N/A	N/A	N/A	N/A
B-1	\$-4	15	ND<1	ND<10	ND<3	ND<3	ND<3	ND<3
B-2	S-1	. 10	ND<îj, ≤	ND<10	ND<3	E>DN	:ND<3	ND<3
B-2	S-2	15	ND<1	50	ND<3	ND<3	11	22
B-3	S-t 😘	4.5	<u>-`</u> ;	- '		-	-	-
B-3	S-2	8.5	ND<1	ND<10	ND<3	ND<3	ND>3	ND>3
B-3	S-3	14.5	ND<1	ND<10	ND<3	NO<3	ND<3	ND>3
8-4	S-1	5	-	-	-	_	-	-
B-4	S-2	10	ND<1 .	ND < 10	ND<3	ND<3	ND<3	ND<3
B-4	S-3	15	ND<1	ND<10	ND<3	ND<3	ND<3	ND<3
MW-1	S- 1 :		15 (16) 1571, 1 2 113 1		1. (*) 1. (*) 1. (*)	- 4 		-
MW-1	S-2	10 80 0840	ND<1	ND<10	ND<3	ND<3	ND<3	ND<3
MW-1: "	S-3	1.1.5	ND<1	ND<10	ND<3	ND<3	ND<3	ND<3
MW-1	S-4	16.5	ND<1	ND<10	ND<3	ND<3	ND<3	ND<3
MW-t	S-5	21.5	ND<1	ND<10	ND<3	ND<3:	ND<3	ND<3
MW-2	S -1	4	-	-	-	-	-	
MW-2	S-2	6.5	. 	-		-	. - : :	
MW-2	S-3(5-8)	11.5	ND<1	ND<10	ND<3	ND<3	ND<3	ND<3
MW-2	S-4(5-9)	16.5	ND<1	ND < 10	ND<3	ND<3	ND<3	ND<3
MW-2	S-5(5-10)	21.5	ND<1	ND < 10	ND<3	ND<3	ND<3	ND<3
WW-3	s-i	6.5	and the second	a landeri	A Service Control		in the same will	<u> </u>
MW-3	S-2	10	ND<1	ND<10	ND<3	ND<3	ND<3	ND<3
MW-3	S-3	15	ND<1	250	4	6	12	58
MW-3	S-4	20	-	-	-	-	-	-
MW-4	\$-t	4	- '	-	-	-	-	
MW-4	S-2	6.5	-	.		-	-	_

TABLE 3.1 CONTINUED

Drill Hole	Sample Number	Depth (ft)	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylene (ppb)
MW-4	53	311. 5	ND<1	ND<10	ND<3	ND<3	ND<3.	ND<3
MW-4	S-4	16.5	ND<1	ND<10	ND<3	ND<3	ND<3	ND<3
MW-4	\$-5	21.5	ND<1.	ND<10	ND < 3	ND<3	ND<3	
MW-5	S i	3	NO <1	ND<10	ND<3	NO<3	ND<3	NO<3
MW-5	S-2	6.5		ND<10	-		-	ence of the second second
MW-5	S-3	70	ND<1	ND<10	° ND<3	ND<3	E>DN	_ND<3
MW-5	S-4	15.5	ND<1	ND<10	ND<3	ND<3	ND<3	ND<3
MW-5	S-5	20		ND<10				

TABLE 3.2
SUMMARY OF THE ANALYTICAL RESULTS FROM THE WATER SAMPLING
CONDUCTED DURING PHASE II

Sample Number	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylene (ppb)
MW-t	ND <t< td=""><td>ND<</td><td>∕`, ND<0.3</td><td>ND<0.3</td><td>ND<0.3</td><td></td></t<>	ND<	∕`, ND<0.3	ND<0.3	ND<0.3	
MW-2	ND<1	ND<1	ND<0.3	ND < 0.3	ND<0.3	ND < 0.3
6-WM	0.10	ND<1	∞ND<0.3	ND<0.3	ND < 0.3	ND<0.3
MW-4	ND < 0.05	ND<1	ND<0.3	ND<0.3	ND<0.3	ND<0.3
MW-5	ND<1	ND<1	ND<0.3	ND<0.3	ND<0.3	0.0> DN

SECTION 4.0

CONCLUSIONS

The conclusions will discuss findings from phase II of the site assessment and the certified laboratory data from soil borings conducted in phase I. Figure 4.1 summarizes the findings from phase I and II. The following are the conclusions that can be made from the available data:

- The water gradient at the time of measurement was in a southwest direction. It should be noted that the gradient could fluctuate due to seasonal variations in rainfall, or other influences on the water table such as large production wells in the immediate area.
- Contamination discovered during this site assessment appears to be originating onsite and not coming from an off-site source. This conclusion is supported by the sample results from the drill holes made during the phase I and II study which indicated soil contamination in the down gradient direction or in the immediate vicinity of the excavation. Soil contamination was not found at other locations. Figure 4.2 shows the suspected location of the contaminant plume.
- The shape of the contaminated plume may be influenced by both the groundwater gradient and the water well. The water well may be pulling some of the

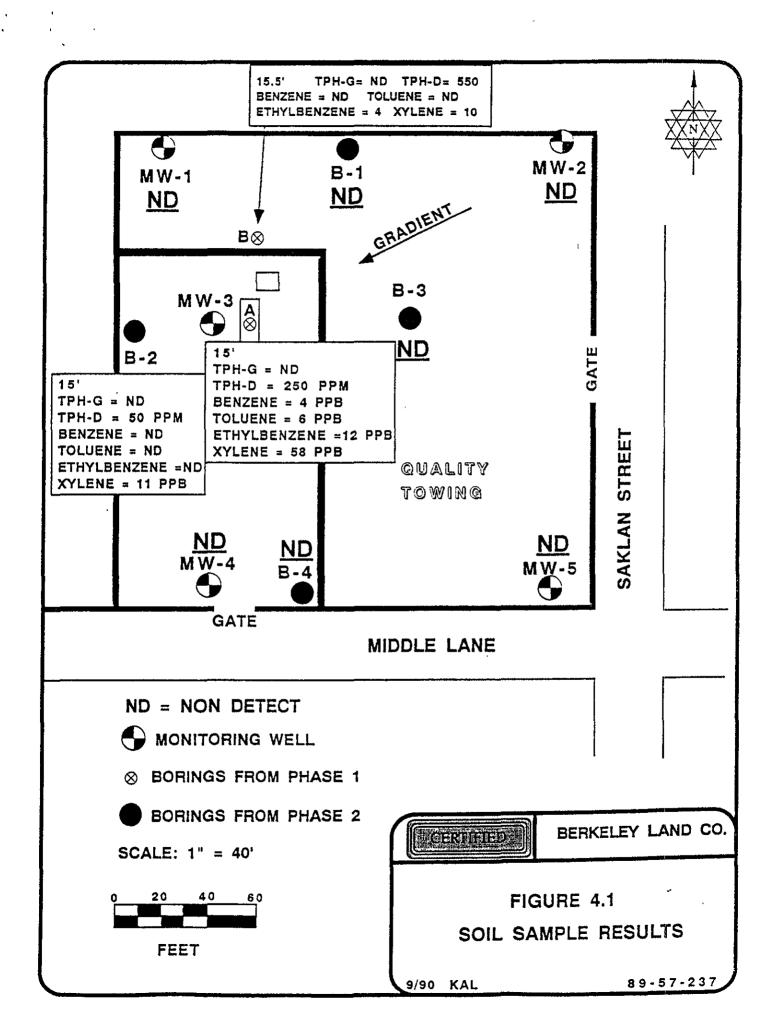
contamination perpendicular to the water gradient towards drill hole B installed during Phase I.

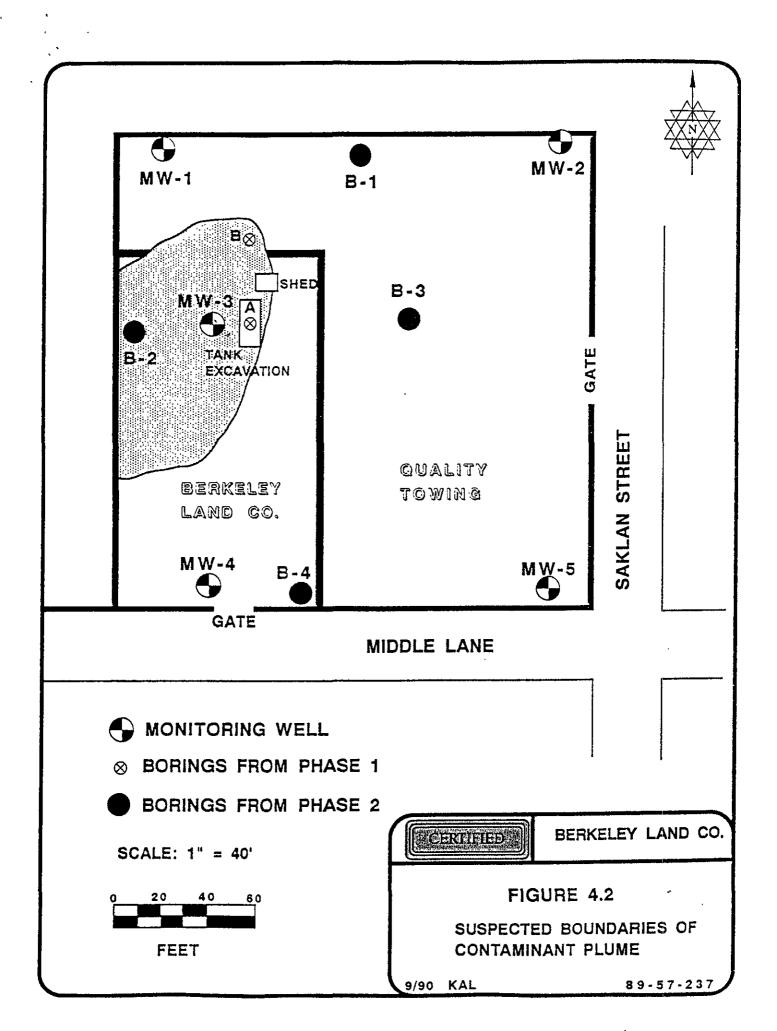
Contamination consists mostly of petroleum hydrocarbons in the diesel range.

However, gasoline components such as, benzene, toluene, ethylbenzene, and xylene were also present.

John John Could Show the form out what the form out

At drill hole B-2, benzene and toluene were not detected. But, ethylbenzene and xylene were. This would indicate that the plume front has moved beyond this location into the neighboring property. Benzene and toluene are the lighter gasoline components and have the ability to move through the soil at rate faster than other components. Their absence at B-2 would suggest they have migrated further down gradient.





SECTION 5.0

RECOMMENDATIONS

CEC makes the following recommendations based on the data presently available:

- Conduct quarterly monitoring of the wells as required by the Regional Water
 Quality Control Board.
- Prepare quarterly progress reports as required by the County's letter of October 13,1989. This report is overdue and needs to be completed immediately. This Phase II Assessment Report would suffice for one of these quarterly reports. A copy of the quarterly reports should be sent to the San Francisco Regional Water Quality Control Board.
- Skim the oil from the top of the water well and monitor the well to see if more oil returns.
- If not already completed, Berkeley Land Company needs to contact the appropriate regulatory Agencies concerning the fuel oil floating in the water well. The reporting requirements are outlined in CEC's letter dated May 14, 1990 (see appendix G).

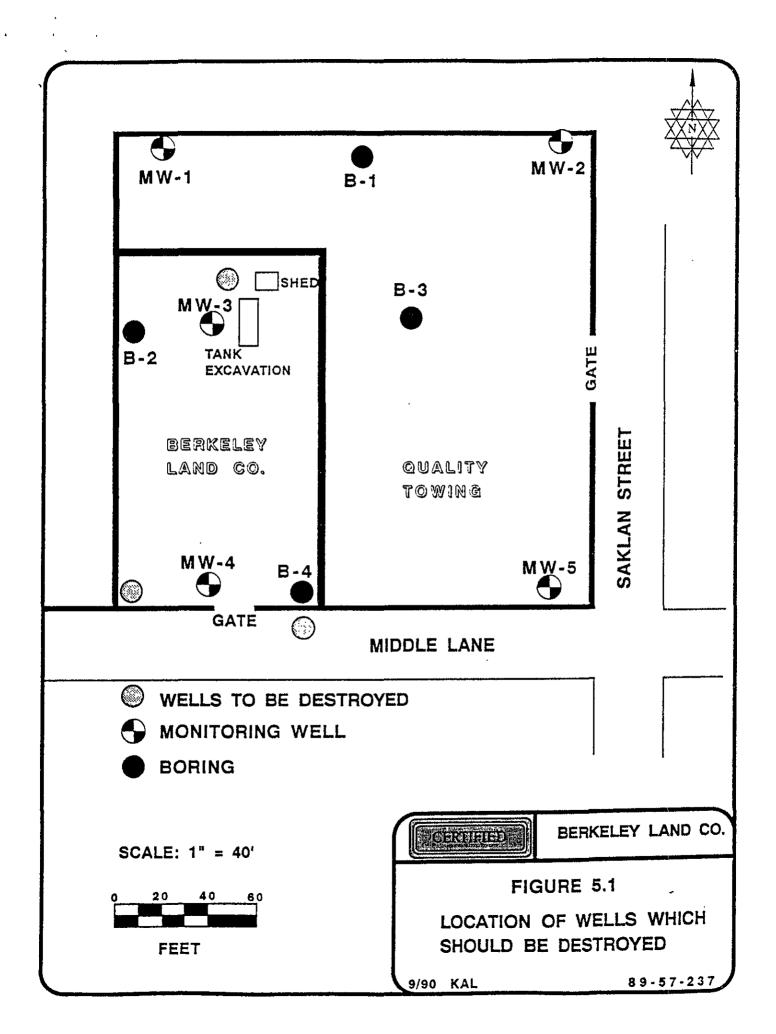
- Destroy the three wells (one water well and two monitoring wells) that were on site prior to this preliminary assessment (see Figure 5.1). These wells have served their intended purpose and are no longer needed. The regulatory agencies encourage this when a well is no longer useful or posses a threat to the underlying groundwater. The water well may be tied to both the upper and lower aquifers at this site. Its existence may provide a pathway for contamination to enter the lower aquifer. This potential pathway must be sealed. The two monitoring wells are not protected and have no future environmental use. The potential exists for these wells to be tampered with by unauthorized persons which could lead to further contamination of the underlying aquifer.
- Check the gradient each quarter during the well sampling to determine if the gradient of the groundwater stays the same or varies.
- Prepare a soil remediation work plan for County approval which could include excavation and disposal or bioremediation. This plan will also address any off-site work to further determine the spread of the contamination if required by the regulators.
- Begin the cleanup process. Table 5.1 summarizes the recommendations and provides an approximate cost for each recommendations. It is in the best interest of Berkeley

Land Company that the work to complete the recommendations be authorized immediately.

In support of the off-site investigation it is recommended that both up gradient and down gradient water wells in the immediate area be sampled for contamination.

TABLE 5.1 SUMMARY OF THE RECOMMENDATIONS

Conclusions	Recommendations	Timetable	Estimated Cost
1.) Contamination consists mostly of petroleum hydrocarbons in diesel range and BTEX.	Conduct quarterly monitoring of wells for TPH-G, TPH-D, and BTEX.	Conduct this evaluation quarterly starting immediately	\$2,500.00 per quarter
2.) The shape of the contamination plume may be influenced by groundwater gradient and the water well.	Skim oil from surface of the water well and see if it returns.	Complete this immediately	\$1,000.00 @
3.) N/A	Contact the appropriate regulatory agencies about the floating product in the water well.	BLC should do this immediately	N/A
4.) N/A	Destroy the three wells that existed on this site prior to this assessment.	Immediately	\$1,200.00
5.) The water gradient at the time of the measurement was is in a southward direction.	Verify the gradient at different times of the year.	Conduct this evaluation quarterly starting immediately	Cost included with quarterly monitoring of the wells.
6.) Contamination is originating from on-site.	Prepare a soil remediation work plan.	Immediately	\$3,500
7.) N/A	Conduct soil remediation.	Immediately after regulatory approval of the work plan	\$150k to \$200k
8.) Plume may have moved off site.	Sample water wells in the surrounding area.	Immediately	\$ 320.00 per well



AGENCY DAVID J. KEARS, Agency Director



october 13, 1989

DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Program 30 Gwan Way, Rm. 200 Oakland, CA 94621 (415)

Mr. John Subuttec Berkeley Land Co. 4550 San Pablo Ave. Emeryville, CA 94608

Re: Unauthorized release from underground storage tank, 23555 Saklan Ave., Hayward

Dear Mr. Subuttec:

As you know, in June, 1988, your underground storage tank was removed from the above location. Analytical results of two soil samples taken from the tank pit indicate a hydrocarbon level of 2076 ppm and 24144 ppm. These are above the threshold level that the Regional Water Quality Control Board (RWQCB) considers to be evidence of an unauthorized release requiring further investigation. An unauthorized release report has been filed with this office; you must now initiate further investigation and/or cleanup activities at this site.

A preliminary assessment should be conducted to determine the extent of soil and groundwater contamination that has resulted from the leaking tank system. The information gathered by this investigation will be used to assess the need for additional actions at the site. The preliminary assessment should be designed to provide all of the information in the format shown in the attachment at the end of this letter. This format is based on RWQCB guidelines. You should be prepared to install one monitoring well, if you can verify the direction of groundwater flow in the immediate vicinity of the site, and three wells if you cannot.

Until cleanup is complete, you will need to submit reports to this office and to the RWQCB every three months (or at a more frequent interval, if specified at any time by either agency). These reports should include information pertaining to further investigative results; the methods and costs of cleanup actions implemented to date; and the method and location of disposal of any contaminated material.

Soils contaminated at hazardous waste concentrations should be transported by a licensed hazardous waste hauler and disposed of or treated at a facility approved by the California Department of Mr. John Subuttec October 13, 1989 Page 2 of 2

Health Services. Soils contaminated below the hazardous waste threshold may be managed as nonhazardous, but are still subject to the RWQCB's waste discharge requirements. In no case may stockpiled soil with any detectable level of contamination be used to backfill the hole.

Your work plan must be submitted to this office by November 16, 1989. Copies of the proposal should also be sent to the RWQCB (attention: Lester Feldman). You may implement remedial actions before approval of the work plan, but final concurrence by this office will depend on the extent to which the work done meets the requirements described in this letter.

You will need to submit an additional deposit of \$333 to cover costs that the Division of Hazardous Materials incurs during remediation oversight. If you have any questions about this letter or about remediation requirements established by the RWQCB, please contact the undersigned, at 271-4320.

Sincerely,

Thomas F. Peacock, Senior HMS Hazardous Materials Division

TP:tp

enclosure

cc: Howard Hatayama, DOHS

Lester Feldman, San Francisco Bay RWQCB

Gil Jensen, District Attorney, Alameda County Consumer and

Environmental Protection Agency

Rafat Shahid, Assistant Agency Director, Environmental Health

WORK PLAN REQUIREMENTS FOR AN INITIAL SUBSURFACE INVESTIGATION

This outline should be followed by professional engineering or geologic consultants in preparing work plans to be submitted to the RWQCB and local agencies. Work plans must be signed by a California-registered engineer or geologist.

This outline should be referred to in context with the "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks" (June 2, 1988).

PROPOSAL FORMAT

I. <u>Introduction</u>

- A. State the scope of work
- B. Items are omitted that have already been received by this Department

II. Site Description

- A. Describe the hydrogeologic setting of the site vicinity
- B. Prepare a vicinity map (including wells located on-site or on adjoining lots, as well as any nearby streams

III. Plan for Determining Extent of Soil Contamination

- A. Describe method for determining the extent of contamination within the excavation
- B. Describe sampling methods and procedures to be used
 - 1. If a soil gas survey is planned, then:
 - identify number of boreholes, locations, sampling depths, etc.;
 - identify subcontractors, if any;
 - identify analytical methods;
 - provide a quality assurance plan for field testing.
 - 2. If soil borings are to be used to determine the extent of soil contamination, then:
 - identify number, location (mapped), and depth of the proposed borings;
 - describe the soil classification system, soil sampling method, and rationale;
 - describe the drilling method for the borings, including decontamination procedures;
 - explain how borings will be abandoned.
- C. Describe how clean and contaminated soil will be differentiated, and describe how excavated soil will be stored and disposed of. If on-site soil aeration is to be used, then describe:
 - 1. The volume and rate of aeration/turning;
 - 2. The method of containment and cover;
 - Wet-weather contingency plans;
 - 4. Results of consultation with the Bay Area Air Quality Management District.

Other on-site treatments (such as bioremediation) require permits issued by the RWQCB. Off-site storage or treatment also requires RWQCB permits.

- D. Describe security measures planned for the excavated hole and contaminated soil
- IV. Plan for Characterizing Groundwater Contamination
 Construction and placement of wells should adhere to the
 requirements of the "Regional Board Staff Recommendations for
 Initial Evaluation and Investigation of Underground Tanks."
 - A. Explain the proposed locations of monitoring wells (including construction diagrams), and prepare a map to scale
 - B. Describe the method of monitoring well construction and associated decontamination procedures
 - 1. Expected depth and diameter of monitoring wells.
 - 2. Date of expected drilling.
 - 3. Locations of soil borings and sample collection method.
 - 4. Casing type, diameter, screen interval, and pack and slot sizing technique.
 - 5. Depth and type of seal.
 - 6. Development method and criteria for determining adequate development.
 - 7. Plans for disposal of cuttings and development water.
 - 8. Surveying plans for wells (requirements include surveying to established benchmark to 0.01 foot).
 - C. Groundwater sampling plans
 - 1. Water level measurement procedure.
 - 2. Well purging procedures and disposal protocol.
 - 3. Sample collection and analysis procedures.
 - 4. Quality assurance plan.
 - 5. Chain-of-custody procedures.
- V. Prepare a Site Safety Plan

APPENDIX B DAILY FIELD SUMMARIES

<u>DATE</u>: May 21, 1990 <u>Project No</u>.: C9017A

Client: Certified Environmental Consulting, Inc.

Site Location: 2555 Saklan Road, Hayward, California

WORK PERFORMED

Drilled to a total depth 30.0-feet and installed Monitor Well MW-5 to a depth of 21.0-feet. Backfilled 21.0-30.0-feet with bentonite pellets. Collected soil samples during drilling using SPT brass retainers. Water first encountered at approximately 14.7-feet depth. No hydrocarbon odors observed during drilling or sampling.

PROBLEMS ENCOUNTERED

Drill site access blocked by vehicles - standby while vehicles removed.

"Sand heave" at TD - used rod bell as load to suppress upload and keep hole open.

Zone 7 inspector Pam Evans could not be contacted for site visit.

Drill rig out of steam-cleaner water; no water on-site - early site departure.

EQUIPMENT ON-SITE

Bay Land Drilling Company CME 75 drill rig with nominal ten (10)-inch OD hollow-stem augers. Bob Rogers, driller. Portable steam cleaner.

SAMPLES COLLECTED

Soil samples collected with a standard penetration test split-spoon sampler nominal two (2)-inch diameter with brass retainers.

Five (5) soil samples from Monitor Well MW-5 collected for analysis at 2.5-3.0 feet, 6.0-6.5 feet, 9.5-10.0 feet, 15.0-15.5 feet, and 19.5-20.0 feet. Selective analysis may be performed.

<u>DATE</u>: May 22, 1990 <u>Project No.</u>: C9017A

Client: Certified Environmental Consulting, Inc.

Site Location: 2555 Saklan Road, Hayward, California

WORK PERFORMED

Completed surface installation of Monitor Well MW-5. Drilled to a total depth of 28.5-feet and installed Monitor Well MW-2 to a depth of 27.0-feet. No hydrocarbon odors observed during drilling or sampling. Collected soil samples during drilling using SPT brass retainers. Water first encountered at approximately 14-feet depth.

PROBLEMS ENCOUNTERED

Drill site initially blocked by vehicles.

Not clarified if monitor well surface seals need visual inspection and approval by Zone 7 - contacted and verified that no on-site inspection is required, although inspector Pam Evans arrived on-site.

EQUIPMENT ON-SITE

Bay Land Drilling Company CME 75 drill rig with nominal ten (10)-inch OD hollow-stem augers. Bob Rogers, driller. Portable steam cleaner.

SAMPLES COLLECTED

Soil samples collected with a standard penetration test split-spoon sampler nominal two (2)-inch diameter with brass retainers.

Five (5) soil samples collected from Monitor Well MW-2 for analysis at 3.5-4.0 feet, 6.0-6.5 feet, 11.0-11.5 feet, 16.0-16.5 feet, and 21.0-21.5 feet. Selective analysis may be performed.

<u>DATE</u>: May 23, 1990 <u>Project No</u>.: C9017A

Client: Certified Environmental Consulting, Inc.

Site Location: 2555 Saklan Road, Hayward, California

WORK PERFORMED

Drilled to a total depth 27.5-feet and installed Monitor Well MW-4 to a depth of 27.2-feet. Collected soil samples during drilling using SPT brass retainers. Water first encountered at approximately 16-feet depth. No hydrocarbon odors observed during drilling or sampling.

Drilled to a total depth 28.5-feet and installed Monitor Well MW-1 to a depth of 25.3-feet. Collected soil samples during drilling using SPT brass retainers. Water first encountered at approximately 14-feet depth. No hydrocarbon odors observed during drilling or sampling.

PROBLEMS ENCOUNTERED

Drill sites initially blocked by vehicles.

Berkeley Land Co. representative identified two (2) existing monitor wells. One well is located within apparent public right-of-way (near Middle Lane), and does not contain cap identification as a monitor well nor a security cover. Notified Berkeley Land Co. and Project Geologist Scott Parker that it is our opinion the monitor well does not fulfill current regulations for investigations of underground storage tanks.

EQUIPMENT ON-SITE

Bay Land Drilling Company CME 75 drill rig with nominal ten (10)-inch or eight (8)-inch OD hollow-stem augers. Bob Rogers, driller. Portable steam cleaner.

KENT	8	KENT	, INC.
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Daily Field Summary - continued May 23, 1990 Page 2 of 2

SAMPLES COLLECTED

Soil samples collected with a standard penetration test split-spoon sampler nominal two (2)-inch diameter with brass retainers.

Five (5) soil samples from Monitor Well MW-4 collected for analysis at 3.5-4.0 feet, 6.0-6.5 feet, 11.0-11.5 feet, 16.0-16.5 feet, and 21.0-21.5 feet. Selective analysis may be performed.

Five (5) soil samples from Monitor Well MW-1 collected for analysis at 3.5-4.0 feet, 6.0-6.5 feet, 11.0-11.5 feet, 16.0-16.5 feet, and 21.0-21.5. Selective analysis may be performed.

<u>DATE</u>: May 24, 1990 <u>Project No.</u>: C9017A

Client: Certified Environmental Consulting, Inc.

Site Location: 2555 Saklan Road, Hayward, California

WORK PERFORMED

Drilled Boring B-1 to a total depth of 15.0-feet. Collected soil samples during drilling using SPT brass retainers. Water first encountered at approximately 14.9-feet depth. No hydrocarbon odors observed during drilling or sampling.

Drilled Boring B-3 to a total depth of 14.5-feet. Collected soil samples during drilling using SPT brass retainers. Water first encountered at approximately 14.3-feet depth. No hydrocarbon odors observed during drilling or sampling.

PROBLEMS ENCOUNTERED

CME drill rig 75 could not gain access to site for Monitor Well MW-3 because vehicles blocking entry. Early site departure to re-mobilize smaller drill rig at a later date.

EQUIPMENT ON-SITE

Bay Land Drilling Company CME 75 drill rig with nominal eight (8)-inch OD hollow-stem augers. Bob Rogers, driller. Portable steam cleaner.

SAMPLES COLLECTED

Soil samples collected with a standard penetration test split-spoon sampler nominal two (2)-inch diameter with brass retainers.

Four (4) soil samples from Boring B-1 collected for analysis at 3.5-4.0 feet, 6.0-6.5 feet, 9.5-10.0 feet, and 14.5-15.0 feet. Selective analysis may be performed.

Three (3) soil samples from Boring B-3 collected for analysis at 4.0-4.5 feet, 9.0-9.5 feet, and 14.0-14.5 feet. Selective analysis may be performed.

<u>DATE</u>: May 30, 1990 <u>Project No.</u>: C9017A

Client: Certified Environmental Consulting, Inc.

Site Location: 2555 Saklan Road, Hayward, California

WORKPERFORMED

Drilled to a total depth of 25.0-feet and installed Monitor Well MW-3 to a depth of 20.3-feet. Backfilled 20.5-25.0 feet depth with bentonite pellets. Hydrocarbon odors and sheen observed during sampling from approximately 13.0 to 16.1-feet depth. Collected continuous soil samples during drilling using split barrel. Water first encountered at approximately 14.8-feet depth.

Drilled Boring B-2 to a total depth of 10.0-feet. Collected soil samples during drilling using SPT brass retainers. Water not encountered. No hydrocarbon odors observed during drilling or sampling.

Drilled Boring B-4 to a total depth of 15.0-feet. Collected soil samples during drilling using SPT brass retainers. Water first encountered at approximately 14.4-feet depth. No hydrocarbon odors observed during drilling or sampling.

PROBLEMS ENCOUNTERED

Drill site B-2 initially blocked by vehicle.

Drill rig mechanical breakdown (hydraulic line) while drilling Boring B-2. Will remobilize at a later date after repairs. Need to finish drilling Boring B-2 from 10.0-feet to 15.0-feet.

Split spoon sampler from 3.5 to 5.0 feet in Boring B-2 had no recovery.

EQUIPMENT ON-SITE

Bay Land Drilling Company CME 55 drill rig with nominal eight (8) and ten (10)-inch OD hollow-stem augers. John Richardson, driller. Portable steam cleaner.

KENT & KENT, INC.

Daily Field Summary - continued May 30, 1990 Page 2 of 2

SAMPLES COLLECTED

Soil samples collected with a standard penetration test split-spoon sampler nominal two (2)-inch diameter with brass retainers.

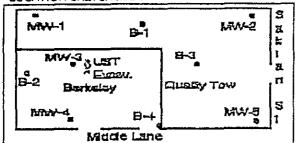
Four (4) soil samples collected from Monitor Well MW-3 for analysis at 6.0-6.5 feet, 9.5-10.0 feet, 14.5-15.0 feet, and 19.5-20.0 feet. Selective analysis may be performed.

Three (3) soil samples from Boring B-4 collected for analysis at 4.5-5.0 feet, 9.5-10.0 feet, and 14.5-15.0 feet. Selective analysis may be performed.

One (1) soil sample from Boring B-2 collected for analysis at 9.5-10.0 feet.

APPENDIX C BORING LOGS

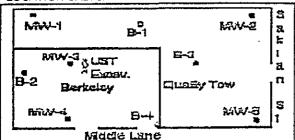
GEOLOGIC LOG SHEET 1 of 1



Project No./Name: C9017A/CEC-Berkeley Land Co.	Client: Cartified Env. Consulting	**********
Project Location: 23555 Saklan St., Hayward, CA	Drill Hale No.:	B-1
Drilling Co./Foreman: Bay Land Drilling/Bob Rogers	Geologist: R. Kent/S. Parker	
Onlling Method/C57/Rig: 8 * OD HSA/CME 75	Sampling Method(s): 2* SPT Brass Retainer	

Orilling Sta	irt Date/Tim	<u>e:</u>	<u>Orillina</u> 5/24/9	End Date/Ti	me:	Ei N	evation:	Total Decth: 15.0 feet		Surface Conditio 2" asphait	ns: Samoles: 4 soil
	Water Date/	Time:		rs. Lags:			c-Tws-Rng	Laboratory:		C-O-C Number:	
	/24/90 08:		NA			N/		Superior		NA	
DEPTH (feet)	SAMPLE NO.	SPT	Time	HC Odor	USC Ct_A		NAME	DENSITY	COLOF	MOISTURE	REMARKS
1 2 3 3 4 5 5 5 6 6 7 7 8 9 9	S-2	5 8 10 4 8 9	08:30 08:40	uoue	CL-A CL SC	AL -?-	Ciayey SILT Silty CLAY —?— Clayey SAND —?— Ciyey-Sand GRAVEL —?— Clayey SAND	very stiff? medium dense	gray brown ? yellow- brown	moist	
10 11 12	<u>\$3</u>	4	08:50	none							decreasing clay content
13 14 15		2 2 3	09:00	enon	sw-			SERED G	Ologi	wet? saturated	well graded, clayey sand
16 17 18 19 20				TO =	15 F	L .	*	NO: 42	KENT		backfilled with cement grout to the surface

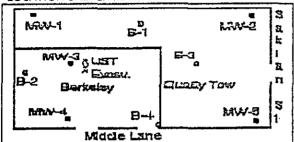
GEOLOGIC LOG SHEET 1 of 1



Project No./Name: C9017A/CEC-Berkeley Land Co.	Client: Cartified Env. Consulting
Project Location: 23555 Saklan St., Hayward, CA	Drill Hole No.: B-2
<u>Drilling Co./Foreman:</u> Bay Land Drilling/John Richardson	Geologist: R. Kent/S. Parker
Drilling Method/C57/Rig: 8 * OD HSA/CME 55	Sampling Method(s): 2* SPT Brass Retainer

	Made	e Lan	e										 	
Orilling Sta	rt Date/Tim	<u>e:</u>	Dniling	Illing End Date/Time:		Ei	evation:	Ţ	otal Depth:	Surface Condition			ns:	Samcles:
5/30/90	6:10	_	6/4/90	08:45			NA		15.0 feet		18° cement pad			2 soil
Deoth 1st	Water Date/	Time:	Geophy	/s. Logs:	-	Se	Sec-Tws-Rng		Laboratory:		C-O-C Number:			i
14.5 feet,	6/4/90 08:0	30	NA			N/	4	8	Superior		NA			
DEPTH (feet)	SAMPLE NO.	SPT	Time	HC Odor	USC		NAME		DENSITY	coro	R	MOISTURE		REMARKS
1234567	NA .		16:25		ML	?-	Clayey SILT		?	black- dk gra	1	moist	sar NF	ment clog in mpler I == not covered
8 - 9 - 10 - 11 - 12 - 12	<u>S-1</u>	5 5 6	16:45	none	SC		Clayey SAND		medium dense	greenis gray ——?- yel- brown ——?- olive gray			slig rig line dril	creasing clay ntent phtly clayey hydraulic a broke led 10.0-15.0 6/4/90
13 14 15		3 4 5	08:35	mod - strong					loose		RE	O GEO	sar	nor clay, nd well ted
16 17 18 19 20				TD =	15 Ft		0 0 0		*	RICH	NO NO	D GEOLOGICA D.C. KENT 4231 CALIFORNIA	Dan U	ckfilled with ment grout to surface

GEOLOGIC LOG SHEET 1 of 1

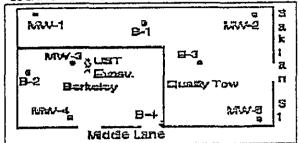


Project No./Name: C9017A/CEC-Berkeley Land Co.	Cilent: Centified Env. Consulting
Project Location: 23555 Saklan St., Hayward, CA	Drill Hole No.: B-3
Onlling Co./Foreman:	Geologist:
Bay Land Onlling/Bob Rogers	R. Kent/S. Parker
Onlling Method/C57/Rig:	Samoling Method(s):
8 * OD HSA/CME 75	2" SPT Brass Retainer

5/24/90			5/24/9	End Date/T 0 10:45	ime:	N/		 otal Deoth: 4.5 feet		Surface Condition 2" asphalt	ns: Samoles: 3 soil
Depth 1st 14.3 feet. 5	Water Date/ 5/24/90 10:	<u>Time:</u> 30	Geoch NA	/s. Logs:		Se N/	ec-Tws-Rng	aboratory: Superior		C-O-C Number: NA	
DEPTH (feet)	SAMPLE NO.	SPT	Time	HC Odor	USC		NAME	DENSITY	COLO	R MOISTURE	REMARKS
123455678910	S-1 S-2	4 4 8 5 6 6	10:10	none	CL	?-	Silty CLAY ——?—— Clayey SAND	stiff? medium dense	grayish brown ?- yellowis brown	?	moderate - well graded sand
11121314151617181920		2 2 3	10:31	none TD =	14.5	Ft	A RES	NO: 42	KENT		slight increase clay content backfilled with cement grout to the surface

GEOLOGIC LOG SHEET 1 of 1

LOCATION SKETCH MAP:



Project No. /Name: C9017A/CEC-Berkeley Land Co.	Client: Centified Env. Consulting	****
Project Location: 23555 Saklan St., Hayward, CA	Drill Hole No.:	B-4
<u>Drilling Co./Foreman:</u> Bay Land Drilling/John Richardson	Geologist: R. Kent/S. Parker	
Drilling Method/C57/Rig: 8 * OD HSA/CME 55	Sampling Method(s): 2* SPT Brass Retainer	

5/30/90 1	nt Date/Tim 5:25 Water Date/		5/30/90	End Date/Ti) 15:55 s. Logs:	we.	ne <u>Eievation</u> NA Sec-Tws-		Total Decth: 15.0 feet Laboratory:		Surface Condition 10" cement pad C-O-C Number:	ns: <u>Samoles:</u> 3 soil
	/30/90 15:		NA NA	· · · · · · · · · · · · · · · · · · ·		NA		Superior		NA	
DEPTH (feat)	SAMPLE NO.	SPT	Time	HC Odor	USC		NAME	DENSITY	coro	R MOISTURE	REMARKS
1 2 3					ML.		Clayey SILT	stiff	prown		
	<u>S-1</u>	5 10 11	15:30	none	======================================	?-	<u>?</u>	?	gry-br	wn	1
- ° - 7 - 8					sc	-?	Clayey SAND	medium dense	prown		
9 10 11	<u>\$-2</u>	3 5 8	15:40	none	SM		Silty SAND				significant decrease clay content
12 13 14	<u></u>	3 4 5	15:55	none	GP.S	-? SC	GRAVEL Ciy SAND:	75	RED G	wet?	abundant coarse sand, clayey gravel
15 - 16 - 17 - 18 - 19 - 20	<u>5</u> -3		13.33	TD =	15.0	Ft	Gly SAIND.	RICH	ARD C.	KENT 31	backfilled with cement grout to the surface

GEOLOGIC LOG SHEET 1 of 2

MW-1	B-1	16N-2 B
B-2 P-1	al a	1 E
Rank-d	B-+	TOWN S
Mi-	dde Lane	

Project No./Name: C3017A/CEC-Serkeley Land Co.	Client: Certified Env. Consulting
Project Location: 23555 Sakian St., Hayward, CA	Drill Hole No.: MW-1
Onlling Co./Foreman: Bay Land Onlling/Bob Rogers	Geologist: R. Kent/S. Parker
Drilling Method/C57/Rig: 10 * OD HSA/CME 75	Sampling Method(s): 2" SPT Brass Retainer

Orilling Sta	nt Date/Tim 2:00	e:	<u>Drilling</u> 5/23/9	End Date/Ti 0 15:00	me:	Eig NA	evation:	Total Deoth: 28.5 feet		Surface Condition 2" asphalt/ceme	
Depth 1st	Water <u>Date/</u> 5/23/90 13	Time: 3:40	<u>Geoony</u> NA	s. Loas:		Sec-Tws-Ang NA		Laboratory: Superior		C-O-C Number: NA	
DEPTH (feet)	SAMPLE NO.	SPT	Time	HC Odor	USC	 -	NAME	DENSITY	COLO		REMARKS
1 2	<u> </u>				CL		Silty CLAY	very stiff	black	moist	fill?
3 4 5	<u></u>	5 5 11	13:00	none		?-	? Clayey SILT		gry - 5	m	
- 6 - 7 - 7	<u>\$-2</u>	7 7 9	13:15	попе	SM	?-	Silty fine	medium dense	light ye brown		
8 9 10		i				?-		?			increasing clay content
11 12	<u></u>	3 4 6	13:30	none	sc		Clayey SAND to Sitty fine SAND	loose			
13 14 15			·								
16 17	S-4	6 4 5	13:45	none							-
18 19 20					—? МL	<u>,_</u>	——?—— Ciayey SILT	very	?- mediur brown	m moist	

GEOLOGIC LOG SHEET 2 of 2

NW-1	B-1	JAW-9] <u>3</u>
MW-Saul		B-3	k L
MW-3 % L	josu.	ਧਿਨਾਈ ⊥tem _	n
रुक्तम-ब	₽→	្ន-wn	S 1
	dde Lane		•

Project No./Name: C9017A/CEC-Berkeley Land Co.	Client: Cartified Env. Consulting
Project Location: 23555 Saklan St., Hayward, CA	Drill Hole No.: MW-1
Onlling Co./Foreman: Bay Land Drilling/Bob Rogers	Geologist: R. Kent/S. Parker
Onlling Method/C57/Rig: 10 * OD HSA/CME 75	Samoling Method(s): 2" SPT Brass Retainer

	Middle Lane											<u>, ., </u>		
Onlling Sta	Onlling Start Date/Time: Drilling End Date/Time:				Els	evation:		otal Dectn:	ļ		rface Condition		Samples:	
5/23/90 1	2:00		5/23/90	15:00		NA		_	8.5 feet	2* asphalt/cement			it	5 soil
Depth 1st	Water Oate/	Time:	Geochy	s. Logs:			c-Tws-Rng		aboratory:		-	D-C Number:		
14 (?) feet,	5/23/90 13	:40	NA			NA		S	uperior		NA			
DEPTH (feet)	SAMPLE NO.	SPT	Time	Odor	USC		NAME		DENSITY	COLO	R	MOISTURE		REMARKS
21 22 23 24 25 26 26	<u>S-5</u>	4 6 11	14:00	none ·	ML		Clayey SILT		very stiff	mediu brown	1	moist	fro sh	nit continued im prior eet) :30, W.L. at
27 28 29 30 31	visual		14:45	enon			TD =	n	28.5 Ft			-	28 in:	ackfilled with entonite from 3.5 to 25.3 ft; stalled well
32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40										×	F	ICHARD C. K NO: 4231	EN.	, ,,

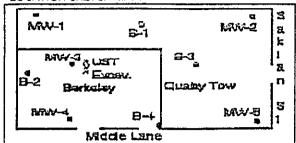
GEOLOGIC LOG SHEET 1 of 2

EGCATION SIZETOI		2	ls
MW-1	B-1	ent-e	R
MA-3 OF		g_ -g_	ľ
B-2 Bartista	DSV.	шабу Тою	. a n
nan-4	B-∔	E-WM	S 1
Md	de Line		•

Project No. / Name: C3017A/CEC-Berkeley Land Co.	Client: Centified Env. Consulting
Project Location: 23555 Sakian St., Hayward, CA	Drill Hole No.: MW-2
Dnlling Co./Foreman: Bay Land Drilling/Bob Parker	Geologist: R. Kent/S. Parker
Drilling Method/C57/Rig: 10 * OD HSA/CME 75	Sampling Method(s): 2" SPT Brass Retainer

Drilling Sta	rt Date/Tim	<u>e:</u>		End Date/Ti	me:	Elevation:		Total Decth:			Surface Conditions:			Samples:
5/22/90 0	9:45		5/22/90	12:00		N/	<u> </u>	30.0 feet			2" asphalt]	5 soil
Depth 1st	Water Date:		Geoghy	s. Logs:		Sec-Tws-Rng		Laboratory:		C-O-C Number:				
13.5 (?) fe	et, 5/22/90		NA			NA		Sucerior			NA			
DEPTH (faet)	SAMPLE NO.	SPT	Time	HC Odor	USC		NAME	٦	DENSITY	COLO	ន	MOISTURE		REMARKS
1 2 3 4	<u>S-1</u>	10 13 13	10:07	none		?-	CLAY	•	very stiff	dark brown	_	damp		od. organic ntent
5 6 7	S-2	8 11 8	10:14	enon	SM		Silty SAND		medium dense	prown	1	moist	to mo	nd unsorted poorly sorted oderate silt ntent
8 9					sc	?-	Ciayey SAND?	·		v. ligth gray	t			
10 11 12	<u>\$-3</u>	6 7 8	10:30	none	SM		Silty SAND			yellowi brown				ght increase y content
13		2	•		sc	?-	?		?			—-?—— wet ——?——	ap	ggy pearance oderate
16 17 18	<u>s</u>	3 3	10:46	none			SAND					saturated	silt	ghty
19 20						2-	?		?	?-		?	cai	reasing clay ntent t change orcx. 20-leet

GEOLOGIC LOG SHEET 2 of 2

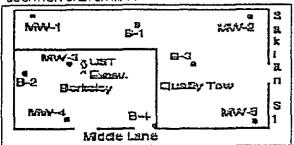


Project No./Name:	Client:
C9017A/CEC-Berkeley Land Co.	Certified Env. Consulting
Project Location: 23555 Saklan St., Hayward, CA	Drill Hole No.: MW-2
<u>Drilling Co./Foreman:</u> Bay Land Onlling/Bob Parker	Geologist: R. Kent/S. Parker
Drilling Method/C57/Rig:	Sampling Method(s):
10 * OD HSA/CME 75	2* SPT Brass Retainer

Drilling Sta	ert Date/Tim 19:45	8.			Ele	evation:	Total Deoth: 30.0 feet		Surface Condi 2* asphalt	Samples: 5 soil		
	Water Date; et, 5/22/90		<u>Geoohy</u> NA	s. Logs:		Se N/	nnF-swT-o	Laboratory: Superior		C-O-C Numbe NA	<u>r:</u>]
DEPTH (feet)	SAMPLE NO.	SPT	Time	HC Odor	USC		NAME	DENSITY	COLO	R MOISTURI	=	REMARKS
21 22	<u>S-5</u>	5 8 10	11:00	none.	CL		Sandy CLAY	very stiff	mediu: gray	m moist	si	oderate.y ty
23 24 25					sc ?	?— ; — ;	Ciy SAND	? loose;? ?	yel-brw	? wet?	in ap th	ayey SAND terbeds?, oprox. 4-6*? ick ind heave
26 26 27					CL-C		Sandy CLAY ? Cly SAND	very stiff? loose?	mediu gray ————————————————————————————————————	?_ ?_	_ 11	od. plastic 1:25, W.L. at 3.0 Ft
28 29	visual	3 7 10	11:55	none	Cr.	<u>} </u>	Sandy CLAY	very stiff		? ?	-	
30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40		·			TD	#	30.0 Ft	*	RICHAP NO	D GEOLOGIS 3D C. KENT 3 4231 CALIFORNIA	30	ackfilled with entonite from 0.0 to 27.5 ft; stalled well

KENT & KENT, INC.

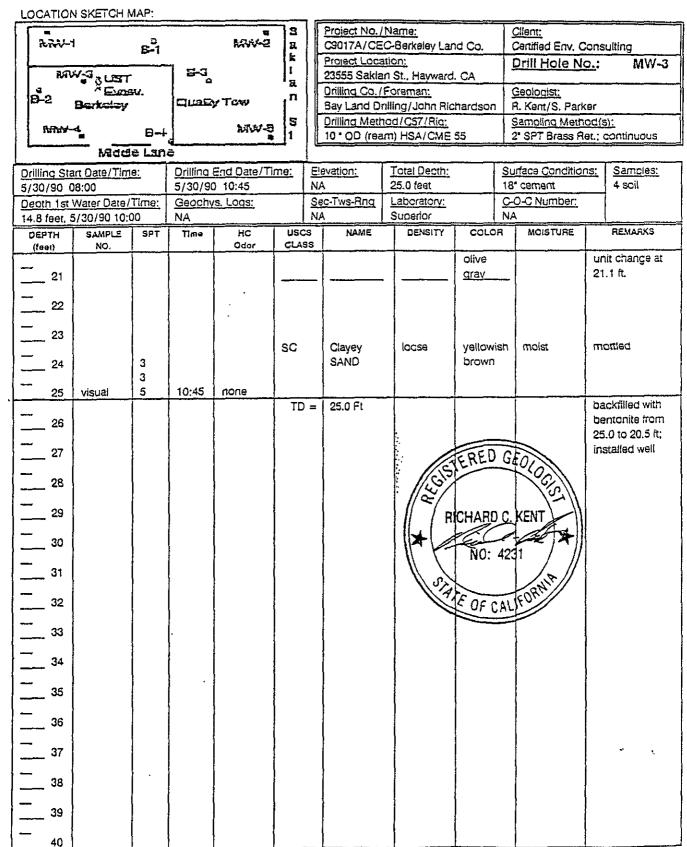
KENT & KENT, INC. Walnut Creek, California GEOLOGIC LOG SHEET 1 of 2



Project No./Name: C9017A/CEC-Berkeley Land Co.	Client: Certified Env. Consulting
Project Location: 23555 Saklan St., Hayward, CA	Drill Hole No.: MW-3
<u>Dniling Co./Foreman:</u> Bay Land Drilling/John Richardson	Geologist: R. Kent/S. Parker
Drilling Method/C57/Rig: 10 * OD (ream) HSA/CME 55	Sampling Method(s): 2" SPT Brass Ret.; continuous

Drilling Sta	nt Date/Tim	<u>e:</u>	<u>Orilling</u> 5/30/90	End Date/Ti	me:	E N	evation:	Total Deoth: 25.0 feet		Surface Conditi	ons: Samples: 4 soil
Depth 1st	Water Date/ 5/30/90 10:0			s. Logs:		_	c-Tws-Ang	Laboratory: Superior		C-O-C Number	
DEPTH (feet)	SAMPLE NO.	SPT	Time	HC Odor	USC	S NAME		DENSITY	COLO		REMARKS
1					CL		CLAY	very stiff	dark gray	moist	slightly silly mod. plastic
5 6 7 8	<u>S-1</u>	9 11 17	08:55	ncne	SW GP- GM		SAND	loosa	yellowi brown	sh damp	well sorted; very little clay
9 10 11	S-2	3 3 5	09:30	none	sw sc		SAND Clayey SAND	***			<10% fines
12 13 14 15 16		3 3 5	10:00	mod strong very strong	sc s	? SW	Cse Ciyey SAND -?- Ciy SAND		grayisi olive	wet	in sand size 13.0 - begin soil contamination rainbow sheen on free water
17 18 19 20		5 6 7	10:15	попе	CL		CLAY	stiff	yellowi brown	sh moist	mottled white and dark brown w/ angular blebs

GEOLOGIC LOG SHEET 2 of 2



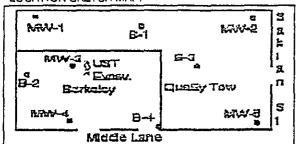
GEOLOGIC LOG SHEET 1 of 2

₩ ₩-1	B-1	15V-2	3 2
B-2 Barket	at men at	e-g Qualy Tow	1 gr
Billion 4	B-+	g-wm	5 1
M	dde Lane		•

Project No./Name: C3017A/CEC-Berkeley Land Co.	Client: Cantified Env. Consulting
Project Location: 23555 Saklan St., Hayward, CA	Drill Hole No.: MW-4
Onlling Co./Foreman:	Geologist:
Bay Land Drilling/Bob Rogers	R. Kent/S. Parker
Onlling Method/C57/Rig:	Samoling Method(s):
10 * OD HSA/CME 75	2* SPT Brass Retainer

	rt Date/Tim	e:		End Date/Ti	me:	Ele	evation:	Total Decth:		Surface Conditio	
5/23/90 0	7:15		5/23/90 09:20			NA 27.5 feet		14" cement		5 scil	
	Water Date/		Geophy	Geophys. Logs:						C-O-C Number:	
16 (?) feet,	5/23/90 09	:45	NA			NA		Superior		VA	
DEPTH (feet)	SAMPLE NO.	SPT	Time	Odor HC	CLA		NAME	DENSITY	COLOR		REMARKS
1							SILT	į.	black	moist	asphaitic materiail
'			Į		ļ		3.2.				under cement
2	ı						?		?-	-	
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_		4	}	none	ML		Clayey	medium	dark		
4	S-1	7	07:45	,			SILT	stiff	prown		
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5		ا ا	{					1	black	Ì	
6		5 5						į		_ (
	S-2_	8	08:00	none	sw-	sc	silty- clayey	medium	yellow	damp	moderate clay
7							SAND	densa	prown	1	mod-poorly
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16		5									
17	<u>S-4</u>	4	08:31	none	SP-S	M	Cse Sand	loose	medium	saturated	
17					?		w/GRAVEL		brown		
18				ļ			•	,	,	,	
					CL		in sandy	medium	it yellow		med. plastic
19	ı					i	CLAY	stiff	brown	moist	slight silty
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20					L			<u> </u>	giy-01WI		<u> </u>

GEOLOGIC LOG SHEET 2 of 2

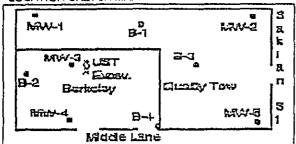


Project No./Name:	Client:
C9017A/CEC-Berkeley Land Co.	Certified Env. Consulting
Project Location: 23555 Saklan St., Hayward, CA	Drill Hole No.: MW-4
Drilling Co./Foreman:	Geologist:
Bay Land Orilling/Bob Rogers	R. Kent/S. Parker
Onlling Method/C57/Rig:	Sampling Method(s):
10 ° OD HSA/CME 75	2" SPT Brass Retainer

	ırt Date/Tim	<u>e:</u>		End Date/Ti			Elevation:		Total Deoth:		Surface Conditions:		
5/23/90 (5/23/90				NA Sas Tue Sas		27.5 feet		14" cement		5 soil
	Water Date/ 5/23/90 09			s. Logs:		Se NA	c-Tws-Ang	Laboratory Superior				O-C Number.	1
			NA T-7		USCS			-			N/	,	
HTQ30 (leel)	SAMPLE NO.	SPT	Time	HC Odor	CLAS		NAME	į	DENSITY	COL)H	MOISTURE	REMARKS
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GEOLOGIC LOG SHEET 1 of 2

LOCATION SKETCH MAP:

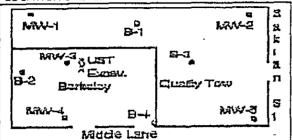


Project No./Name: C9017A/CEC-Berkeley Land Co.	Client: Certified Env. Consulting
Project Location: 23555 Saklan St., Hayward, CA	Drill Hole No.: MW-5
Orilling Co./Foreman: Bay Land Orilling/Bob Rogers	Geologist: R. Kent/S. Parker
Drilling Method/C57/Rig: 10 * OD HSA/CME 75	Sampling Method(s): 2" SPT Brass Retainer

						4						
	art Date/Tim	e:		End Date/Ti	ime:	<u>E</u> !	evation:	Total Deoth:		Surface Conditio		
5/21/90 (0 12:00		NA 31.5 feet						5 soil
Depth 1st	Water Date/	Time:		s. Loas:			Sec-Tws-Rng Laborate			C-O-C Number:		
14.7 feet, 5	5/21/90 11:	30	NA		NA NA			Superior		NA		
DEPTH	SAMPLE	SPT	Time	нс	Usc	S.	NAME	DENSITY	COLO	R MOISTURE	REMARKS	
(feet)	NQ.	<u> </u>		Oder	CLA	SS			 			
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'3	S-4	3	10:55	none	sc	- 1	Clayey	medium		saturated		
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··					ĺ		Sandy	very stiff			ļ	
17			}])	CLAY	1 , , , , , , ,			_	
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18			{		}	}				}		
						?-	?	?		?		
19		5	ļ			Ì		1		}		
		8			CL	1	CLAY	very stiff		moist		
_ 20	S-5_	11	11:20	none		-				[

KENT & KENT, INC. Walnut Creek, California GEOLOGIC LOG SHEET 2 of 2

LOCATION SKETCH MAP:



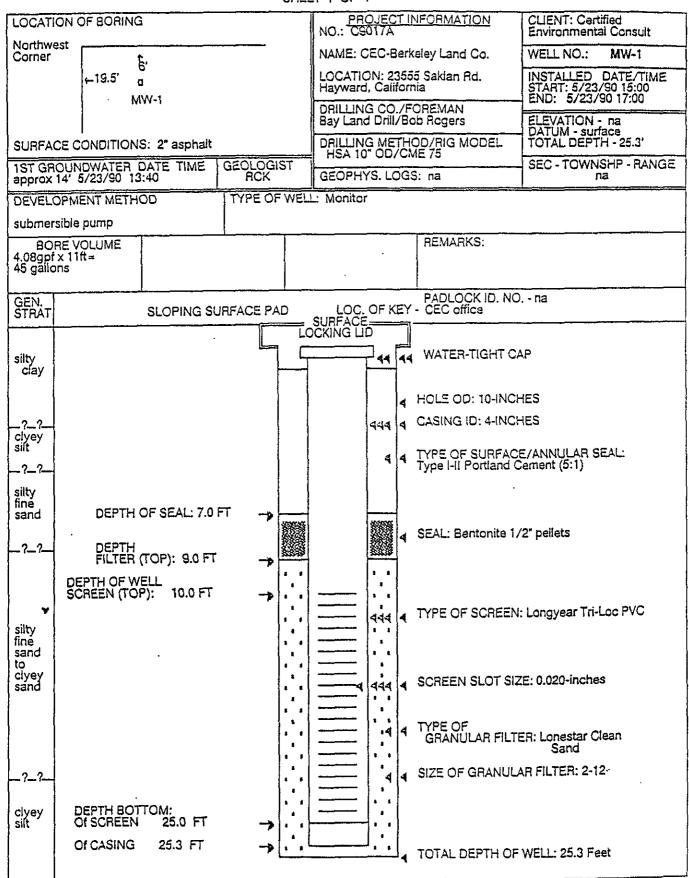
Project No./Name: C9017A/CEC-Berkeley Land Co.	Client: Certified Env. Consulting
Project Location: 23555 Saklan St., Hayward, CA	Drill Hole No.: MW-5
Onlling Co./Foreman: Bay Land Orilling/Bob Rogers	Geologist: R. Kent/S. Parker
Dnlling Method/C57/Rig: 10 * OD HSA/CME 75	Sampling Method(s): 2* SPT Brass Retainer

5/21/90 0			5/21/90	End Date/Ti	me:	N/		3	otal Deoth: 1,5 feet aboratory	2	urface Condition asphalt O-C Number:	ns: Samples: 5 soil
14,7 feet, 5	Water Date/ 5/21/90 11:3	11me:	NA NA	s. Logs:			Sec-Tws-Rng NA		Suberior		IA	
DEPTH (feet)	SAMPLE NO.	SPT	Time	HC Odor	USC		NAME		DENSITY	COLOR	MOISTURE	REMARKS
21 22				-			<u>-</u>					
23 24				-	Cr	;	CLAY		very stiff	yellow brown	moist	
25 26						;						
27 28						:						
29												
30 - 31 - 31	visual		12:00	none				_				
32 33			 - -		TC) =	31.5 Ft			RED G	ED TOGS	backfill with bentonite from 31.5 to 21.2; installed well
34 35 		<u> </u> 							1/ -	CHABO C.	1 1 11	and the state of t
36 — 37						i			*	NO: 42	31	
38 39		,				į			STAT	F OF CA	IF OR MILE	
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APPENDIX D MONITOR WELL AS-BUILT SKETCHES

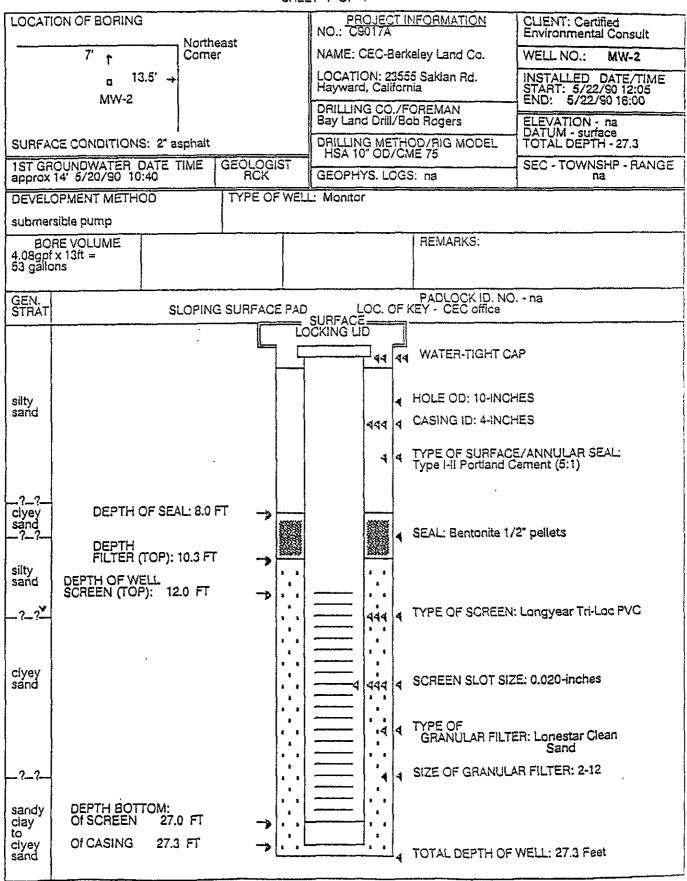
SHEET 1 OF 1

AS-BUILT WELL SKETCH



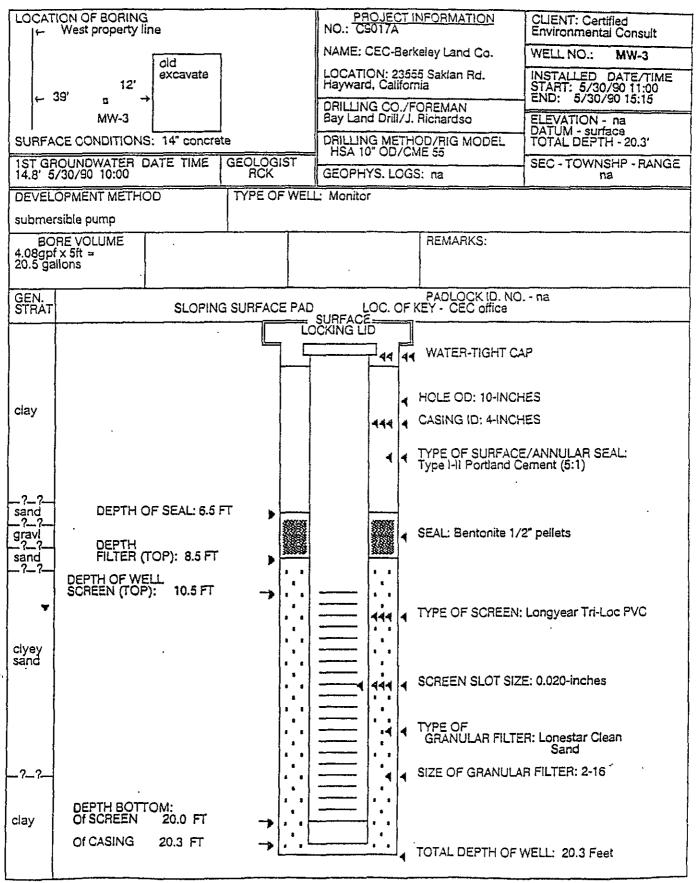
SHEET 1 OF 1

AS-BUILT WELL SKETCH



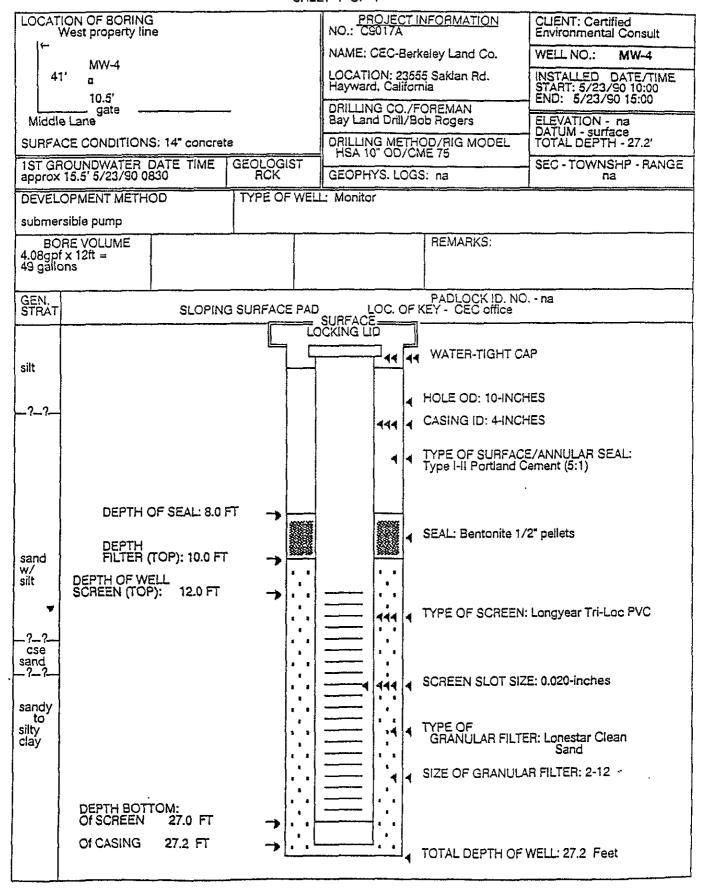
AS-BUILT WELL SKETCH

SHEET 1 OF 1



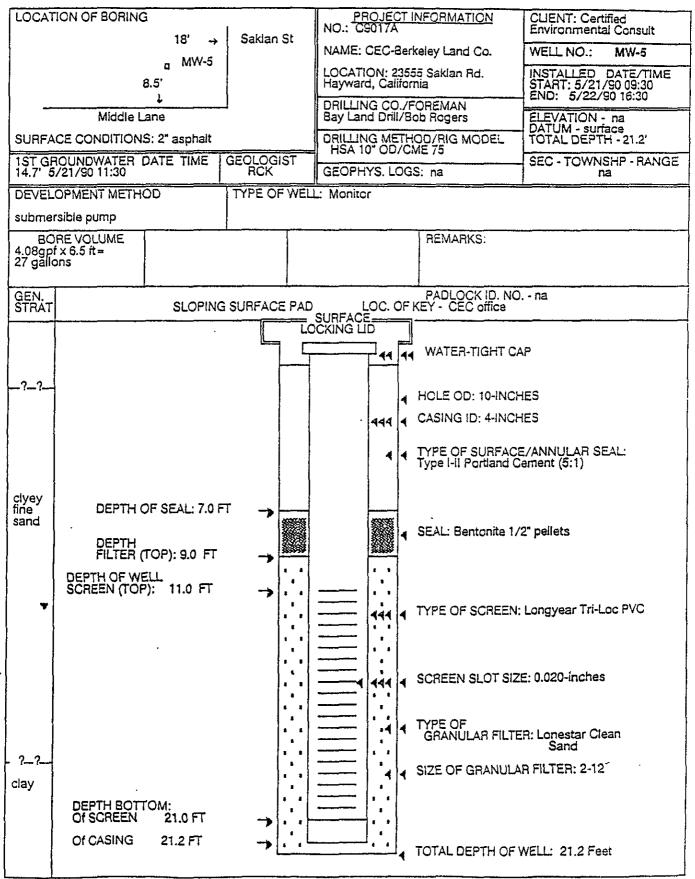
SHEET 1 OF 1

AS-BUILT WELL SKETCH



AS-BUILT WELL SKETCH

SHEET 1 OF 1



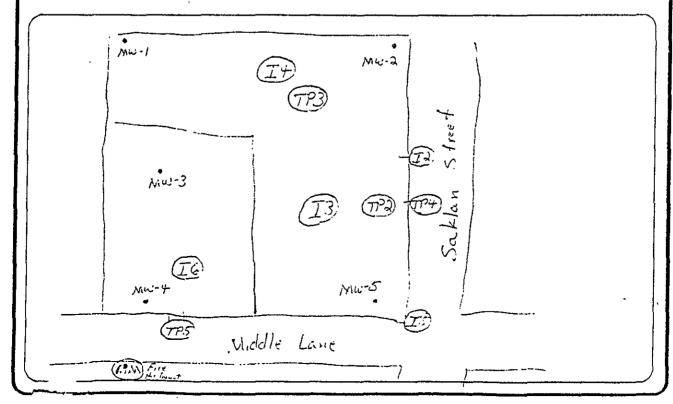


DATE: 6-7-90 PAGE / OF 2

FIELD SURVEY RECORD

CLIENT Berkeley Land Co LOCATION 23555 Sekla: Road, Harlagie, SURVEYORS Conits / Moken WEATHER Clean

STATION	BACK SIGHT	н	FORE SIGHT	ELEVATION	WATER DEPTH	WATER ELEVATION
BM				1CC.CC		
工工	394	0394				
TPI			4.22	9972		
IQ	15.4G	105.15				
TP2			.57,34	99.84		
I3	5.48	105.22				
Nilli-2			475	1CC, 54	/5,33	95.21
Mw 5			6.51	98.81	13.25	85.06
717.3			4.73	100.59		
I4	5.91	166.50				
Mw'-1			6.51	79 99	15,C7	84. 9a
TPY			6.62	77.38		
I5	5,+7	16.5.35				
TP.5			6.98	78.37		





DATE: 6-7-90 PAGE 2 OF 2

FIELD SURVEY RECORD

CLIENT Renteley	Land Co LOCATIO	N
SURVEYORS	WEATHER	R

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BM				100.03		
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Environmental Consulting, In 140 West Industrial Way, Renicia, CA, 94510-1 Ofc. (707) 745-0171 (800) 447-0171 Pax. (7	016	-0163						Cł	ıai	n c	of (Cus	sto	dy	R			
Project Number: 89-57-237 Project Name: Berkeley favores Client: Contact: Address: Sampler's Name at Parker Sampler's Signature favore Number Date Time Location \$-1 \$\frac{5}{23\fo}\$ \$\frac{1}{5} \$\frac{1}{3}\$ \$\frac{1}{5}\$ \$\frac{1}{3}\$ \$\frac{1}{5}\$ \$\frac{1}{3}\$ \$\frac{1}{5}\$ \$\frac{1}{3}\$ \$\frac{1}{5}\$ \$\frac{1}{3}\$ \$\frac{1}{5}\$ \$\frac{1}{3}\$ \$\frac{1}{5}\$ \$\frac{1}{3}\$ \$\frac{1}{5}\$ \$\frac{1}{3}\$ \$\frac{1}{5}\$ \$\frac{1}{3}\$	A B.TE.X	χο - ε ε	CAM Metals (18)		Pr. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Passicides	Volitile Organics (601/602)	Volitile Organics (624)	Asbesios	PCB			OII	her		17atc	Phone Number Turnaround Time Rush 24 Hour 48 Hour Normal Report to: Comments
Reinquished By Date Time CANT COMIS 5-21-90 91375 LUM. COMIS Date Time Dispatched by Date Time	2.	Recei	ved in t.	ab By	,_		Date Date	2	117	me	Me Spe	al Nuntaine thed scial (of St Ship	his S hipm men	Sheet tent	1 and		

1555 Burke, Unit I · San Francisco, Ca 94124 · Phone (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80892 DATE RECEIVED: 05/21/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 05/27/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 5030 and 8015

LAB #	Sample Identification	Concentration (mg/Kg) Gasoline Range
3	S-3	ND<1
4	S-4	. ND<1

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 1 mg/Kg

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = 0 MS/MSD Average Recovery = 98%: Duplicate RPD = 0

Richard Srna, Ph.D.

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80892 DATE RECEIVED: 05/21/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 05/27/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/Kg) Diesel Range
1	S-1	ND<10
2	S-2	ND<10
3	S-3	ND<10
4	S-4	ND<10
5	S-5	ND<10

mg/kg - parts per million (ppm)

Method Detection Limit for Diesel in Soil: 10 mg/Kg

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 5

RPD Diesel = 10

MS/MSD Average Recovery = 99%: Duplicate RPD = 0

Richard Srna, Ph.D

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80892 DATE RECEI

DATE RECEIVED: 05/21/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 05/27/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

LAB			Concentration(ug/Kg) Ethyl						
#	Sample Identification	Benzene	Toluene	Benzene	Xylenes				
		·							
3	S-3 .	ND<3	ND<3	ND<3	ND<3				
4	S-4	ND<3	ND<3	ND<3	ND<3				

ug/Kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/Kg

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%

MS/MSD Average Recovery = 95 %: Duplicate RPD = <1

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Environmental Consulting, Inc.

Chain of Custody Record

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140 West Industrial Way, Benicia, CA, 94510-1016 Ofc. (707) 745-0171 (800) 447-0171 Fax. (707) 745-0163 Project Number: 89-57-237
Project Name: Berkeley farms
Client: Derkeley farms **Parameters** Lab Name Suptained Awalytis Other Total Petroleum Hydrocarbons Address ----Volitile Organics (601/602) Contact: __ Base/Neu/Acids (Organic) Pr. Pollurant Metals (13) Address: _ Phone Number Volitile Organics (624) Turnaround Time Sampler's Name CAM Merals (18) Oil and Grease Sampler's Signature Rush 24 Hour 48 Hour Normal Report to: Scott Parker Sample PCB Date Location Time Comments Number 9:50 NW-2 1005 1025 10:45 5-10 1100 Relinquished Hy lime Total Number of Containers This Sheet: 200 Method of Shipment Cooker Special Shipment / Handling or Storage Requirements: Dispatched Hy Time Received in Lab By Time 7/23/20 13:00 DareinKach

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80902

DATE RECEIVED: 05/23/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 05/31/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 5030 and 8015

LAB # 	Sample Identification	Concentration (mg/Kg) Gasoline Range
3	MW-2 S-8	ND<1
4	MW-2 S-9	ND<1

Method Detection Limit for Gasoline in Soil: 1 mg/Kg Method Detection Limit for Gasoline in Water: 0.05 mg/L

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = 2% MS/MSD Average Recovery = 94%: Duplicate RPD = 11%

Richard Srna, Ph.D.

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80902

DATE RECEIVED: 05/23/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 05/31/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/Kg) Diesel Range
3 4 ND<10	MW-2 S-8 MW-2 S-9 ND<10	ND<10 ND<10

Method Detection Limit for Gasoline and Diesel in Soil: 10 mg/Kg Method Detection Limit for Gasoline and Diesel in Water: 1 mg/L Method Detection Limit for Diesel in Water: 0.05 mg/L

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 2% RPD Diesel = 11% MS/MSD Average Recovery = 80%: Duplicate RPD = 2%

Richard Srna, Ph.D.

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80902 DATE RECEIVED: 05/23/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 05/31/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

7 4 5				Concentration(ug/Kg) Ethyl						
LAB #	Sample	Identification	Benzene	Toluene	Benzene	Xylenes				
3 4	MW-2 MW-2		ND<3 ND<1	ND<3 ND<3	ND<3 ND<3	ND<3 ND<3				

ug/L - parts per billion (ppb)
ug/Kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/Kg Method Detection Limit in Water: 0.3 ug/L

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%

MS/MSD Average Recovery = 93 %: Duplicate RPD = <2%

Richard Srna, Ph.D

Environmental Consulting, Inc. Chain of Custody Record 140 West Industrial Way, Benicia, CA, 94510-1016 Ofc. (707) 745-0171 (800) 447-0171 Pax. (707) 745-0163 Project Number: 8157237 **Parameters** Other Project Name: Berkeley farms
Client: Volitile Organics (601/602) Contact: Phone Number Address: __ Turnaround Time Pr. Pollutani Metals Sampler's Name Scott Parker CAM Metals (18) General Minerals Volitile Organics Total Petroleum Sampler's Signature Rush 24 Hour 48 Hour Normal Report to: Sample PCB Date Time Location Comments Number MW1/55 6/23/90 MW-1 Hold for Analysis MW\$/54 MW1/53 MW1/52 lold for Analysis MW1/51 MW/4 MW4/54 MW4/53 MW4/52 Hold for Analysis Relinquished By Total Number of Recgived Dy Date Containers This Sheet: 5/23/2020 2020 Method of Shipment Special Shipment / Handling or Storage Requirements: Dispatched By Regeifed in Lab By

O.

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80903 DATE RECEIVED: 05/24/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/01/90

CLIENT JOB NO.: 8957237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 5030 and 8015

LAB # 	Sample Identification	Concentration (mg/Kg) Gasoline Range
2	MW1/S4	ND>1
3	MW1/S3	· ND<1
7	MW4/S4	ND<1
8	MW4/S3	ND<1

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 1 mg/Kg

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = 2 MS/MSD Average Recovery = 94%: Duplicate RPD = 11

/Richard Srna, Ph.D.

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80903 DATE RECEIVED: 05/24/90 CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/01/90

CLIENT JOB NO.: 8957237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/Kg) Diesel Range
2	MW1/S4	ND<10
3	MW1/S3	. ND<10
7	MW4/S4	ND<10
8	MW4/S3	ND<10

mg/kg - parts per million (ppm)

Method Detection Limit for Diesel in Soil: 10 mg/Kg

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 2

RPD Diesel = 11

MS/MSD Average Recovery = 80%: Duplicate RPD = 2

Richard Srna, Ph.D.

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80903

CLIENT: Certified Environmental Consulting, DATE RECEIVED: 05/24/90

DATE RECEIVED: 05/24/90

CLIENT JOB NO.: 8957237

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

				Concentration(ug/Kg)					
LAB #	Sample Identific	ation	Benzene	Toluene	Ethyl Benzene	Xylenes			
2	MW1/S4	•	ND<3	ND<3	ND<3	ND<3			
3	MW1/S3	•	ND<3	ND<3	ND<3	ND<3			
7	MW4/S4	•	ND<3	ND<3	ND<3	ND<3			
8	MW4/S3		ND<3	ND<3	ND<3	ND<3			

ug/Kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/Kg

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%

MS/MSD Average Recovery = 93 %: Duplicate RPD = <3

Environmental Consulting, Inc. 140 West Industrial Way, Benicia, CA, 94510-10 Ofc. (707) 745-0171 (800) 447-0171 Fax. (70)	Chain of Custody Record	•
Project Number: By 57-237 Project Name: Birkely farms Client: Contact: Address: Sampler's Name Seat Parker Sampler's Signature of Parker Sample Number Date Time Location B3/51 5/24/40 BH-3 B3/52 B3/53 B1/51 BH-1 B1/52 G1/53 B1/54	B.T.E.X TG45 5.30.1004 XX XX Total Petroleum Hydrocarbons D.v. Oil and Grease CAM Metals (18) Br. Pollutani Metals (13) Base/Neu/Acids (Organic) Pesticides Volitile Organics (601/602) Asbestos PCB PCB PCB	Lab Name Superior Arealy Lient Address Phone Number Turnaround Time Rush 24 Hour 48 Hour Normal Report to: Comments Hall Fast Analysis
Relinquished By Date Time 1. Acrit 4- Four 5/24/50 1545 2. Disparched By Date Time	Received By Date Time Total Number of Containers This Sheet: Method of Shipment Special Shipment / Handling or Storage Requirements: AdMinimal State Time	e Chest

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80906 DATE RECEIVED: 05/24/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/01/90

CLIENT JOB NO.: 8957-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 5030 and 8015

LAB #	Sample Identification	Concentration (mg/Kg) Gasoline Range
	, , , , , , , , , , , , , , , ,	
2	B3/52	ND<1
3	B3/S3	. ND<1
6	B1/S4	ND<1
7	B1/S4	ND<1

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 1 mg/Kg

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = 0 MS/MSD Average Recovery = 103%: Duplicate RPD = 2

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80906 DATE RECEIVED: 05/24/90 CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/01/90

CLIENT JOB NO.: 8957-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/Kg) Diesel Range
2	B3/S2	ND<10
3	B3/S3	. ND<10
6	B1/S4	ND<10
7	B1/S4	ND<10

mg/kg - parts per million (ppm)

Method Detection Limit for Diesel in Soil: 10 mg/Kg

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 2 RPD Diesel = 11 MS/MSD Average Recovery = 80%: Duplicate RPD = 2

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80906 DATE RECEIVED: 05/24/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/01/90

CLIENT JOB NO.: 8957-237

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

			Concentration(ug/Kg)					
LAB #	Sample Identification	Benzene	Toluene	Ethyl Benzene	Xylenes			

2	B3/S2 .	ND<3	ND<3	ND<3	ND<3			
3	B3/S3	ND<3	ND<3	ND<3	ND<3			
6	B1/S4	ND<3	ND<3	ND < 3	ND<3			
7	B1/S4	ND<3	ND<3	ND<3	ND<3			

ug/Kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/Kg

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%

MS/MSD Average Recovery = 97 %: Duplicate RPD = <2

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Richard Srna, Ph.D.

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Project Number Project Name: Client:	r: 8	9- er	57-2 Keles	37 1 +an	m r	Hayren	_	13 18	 		Par	amei	ers						<u></u>		C)ther	— T	11/1	Lab NameAddress
Client;C Contact; Address;		le.	y lai	d Co.				rocarbo				13)	(anic)		1/602)	(}									Phone Number
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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80937 DATE RECEIVED: 05/31/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/06/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 5030 and 8015

LAB #	Sample Identification	Concentration (mg/Kg) Gasoline Range
2	MW3/S2	ND<1
3	MW3/S3	. ND<1
6	BH4/S2	ND<1
7	BH4/S3	ND<1
8	BH2/S1	ND<1
	•	

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 1 mg/Kg Method Detection Limit for Gasoline in Water: 0.05 mg/L

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = 13% MS/MSD Average Recovery = 89%: Duplicate RPD = 0%

Richard Srna, Ph.D.

I sharatary Manager

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CERTIFICATE OF ANALYSIS

DATE RECEIVED: 05/31/90 LABORATORY NO.: 80937

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/06/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/Kg) Diesel Range
2	MW3/S2 MW3/S3	ND<10 250
3	· · · · · · · · · · · · · · · · · · ·	ND<10
6	BH4/S2	ND<10
7	BH4/S3	
8	BH2/S1	ND<10

Method Detection Limit for Gasoline and Diesel in Soil: 10 mg/Kg Method Detection Limit for Gasoline and Diesel in Water: 1 mg/L Method Detection Limit for Diesel in Water: 0.05 mg/L

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 4% RPD Diesel = 9% MS/MSD Average Recovery = 102%: Duplicate RPD = 16%

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80937

DATE RECEIVED: 05/31/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/06/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

7.5			Concentration(ug/Kg) Ethyl				
LAB #	Sample Identification	Benzene	Toluene	Benzene	Xylenes		
		*					
2	MW3/S2 ·	ND<3	ND<3	ND<3	ND<3		
3	MW3/S3	4	6	12	58		
6	BH4/S2	ND<3	ND<3	ND<3	ND<3		
7	BH4/S3	ND<3	ND<3	ND<3	ND<3		
8	BH2/S1	. ND<3	ND<3	ND<3	ND<3		

ug/L - parts per billion (ppb) ug/Kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/Kg Method Detection Limit in Water: 0.3 ug/L

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15% %: Duplicate RPD = <10% MS/MSD Average Recovery = 98

Richard Srna, Ph.D.

140 West Ofc. (70'	IRIED Industrial 7) 745-017	Enviror Way, Bc	nmental Con nicia, CA, 447-0171	sulling, Inc. 94510-10 Fax. (70)16 7) 745	6-45 - 10 LESO 1	3		Dom	amel		'	Cl	hai	n c	of (Cu	sto		<u></u> -			8/4/90 Sheet of
Project Number: 8757237 Project Name: Berkuluy vorms Client: Contact: Address: Sampler's Name Sampler's Sijnalure Sample Sample				BITEX	Total Petroleum Hydrocarbons (G	Oil and Grease	CAM Metals (18)	General Minerals	ıls (13)	Base/Neu/Acids (Organic)	sticides	Volitile Organics (601/602)	Volitile Organics (624)	Asbestos	PCB			Oil	ic;			Phone Number Turnaround Time Rush 24 Hour 48 Hour Normal Report to:	
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5/6490

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80960

DATE RECEIVED: 06/05/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/11/90

CLIENT JOB NO.: 8957237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 5030 and 8015

LAB #	Sample Identification	Concentration (mg/Kg, mg/L*) Gasoline Range
1	BH2S2	ND<1
2	MW4	ND<0.05*

mg/kg, mg/L - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 1 mg/Kg Method Detection Limit for Gasoline in Water: 0.05 mg/L

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = 12 MS/MSD Average Recovery = 98%: Duplicate RPD = 0

Richard Srna, Ph.D.

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80960 DATE RECEIVED: 06/05/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/11/90

CLIENT JOB NO.: 8957237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB		Concentration (mg/Kg, mg/L*)
#	Sample Identification	Diesel Range
	***	الله اللهم جوب فضد فان غلب جود جود جود بينت عليك مولي _{جوت} على جود عليه يات عرب _ع فت عليه وجود _ا لمان الله
1	BH2S2	50
2	MW4	. ND<1*

mg/kg - parts per million (ppm)

Method Detection Limit for Diesel in Soil: 10 mg/Kg Method Detection Limit for Diesel in Water: 1 mg/L

QAQC Summary:

Daily Standard run at 200mg/L: RPD Diesel = 5 MS/MSD Average Recovery = 108%: Duplicate RPD = 3

Richard Srna, Ph.D.

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

DATE RECEIVED: 06/05/90 LABORATORY NO.: 80960 CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/11/90

CLIENT JOB NO.: 8957237

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

LAB		Conc	Concentration(ug/Kg, ug/L*) Ethyl						
#	Sample Identification	Benzene 	Toluene	Benzene	Xylenes				
1 2	BH2S2 MW4	ND<3 ND<0.3*	ND<3 ND<0.3*	11 ND<0.3*	22 ND<0.3*				

ug/L - parts per billion (ppb) ug/Kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/Kg Method Detection Limit in Water: 0.3 ug/L

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15% % Duplicate RPD = <5

MS/MSD Average Recovery = 95

Righard Srna, Ph.D.

Environmental Consulting, Inc.	_							
140 West Industrial Way, Benicia, CA, 94510-10	Chain of Custody Record							
Ofc. (707) 745-0171 (800) 447-0171 Pax. (70)	745-0169 Date 5/23/90 Sheet of							
Project Number: \$957237	Parameters Other	Lub Name Superior Address 947 Arnold Way						
Project Name: Burkeley farm 5 Client: 4		Address X-1:1 Arno/ Way						
Contact:	1 1 1 1 1 1 1 1 1 1	Phone Number						
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Sample Number Date Time Location	B, T.E.X Total Petroleum Hydrocarb Oil and Grease CAM Metals (18) General Minerals Pr. Pollutant Metals (15) Pesticates Volutile Organics (601/602) Volttile Organics (624) Asbestos PCB	Report to: Comments						
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MW4/S1 V		1						
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1555 Burke, Unit I · San Francisco, Ca 94124 · Phone (415) 647-2081 CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80961

DATE RECEIVED: 06/05/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/06/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 5030 and 8015

LAB # 	Sample Identification	Concentration (mg/Kg) Gasoline Range
1 2	MW-2 S-10 MW-1/S5	ND<1 ND<1
3	MW-4/S5	ND<1

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 1 mg/Kg Method Detection Limit for Gasoline in Water: 0.05 mg/L

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = 4% MS/MSD Average Recovery = 94%: Duplicate RPD = 13%

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80961 DATE RECEIVED: 06/05/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/06/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB # 	Sample Identification	Concentration (mg/Kg) Diesel Range
1	MW-2 S-10	ND<10
2	MW-1/S5	ND<10
3	MW-4/S5	ND<10

Method Detection Limit for Gasoline and Diesel in Soil: 10 mg/Kg Method Detection Limit for Gasoline and Diesel in Water: 1 mg/L Method Detection Limit for Diesel in Water: 0.05 mg/L

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 7% RPD Diesel = 6% MS/MSD Average Recovery = 83%: Duplicate RPD = 4%

Richard Srna, Ph.D.

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

DATE RECEIVED: 06/05/90 LABORATORY NO.: 80961

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/06/90

CLIENT JOB NO.: 89-57-237

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

			Concentration(ug/kg) Ethyl							
# 	Sample Identification	Benzene	Toluene	Benzene	Xylenes					
1 2 3	MW-2 S-10 MW-1/S5 MW-4/S5	ND<3 ND<3 ND<3	ND<3 ND<3 ND<3	ND<3 ND<3 ND<3	ND<3 ND<3 ND<3					

ug/L - parts per billion (ppb) ug/Kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/Kg Method Detection Limit in Water: 0.3 ug/L

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15% %: Duplicate RPD = <2% MS/MSD Average Recovery = 96

140 West Industrial Way, Benicia Ofc. (707) 745-0171 (800) 447-	ntal Consulting, Inc. n, CA, 94510-10	=)16	163					ļ	Cl	nai	n o	of (Cus	ito	dy	R		ord	6/19/90 Sheet of 1
Project Number: 90-57-23 Project Name: Burkeley: Client: Same Contact: Address: Sampler's Name Coff Park Sampler's Signature Lott Fault Number Date Time MW-3 5/19/70 3:00p		-11	Oil and Grease Crast Die	CAM Metals (18)	General Minerals	Pr. Pollutani Metals (13)	Acids (Organic)	Pestioides	Volitie Organics (601/602)	Volitile Organics (624)	Asbestos	PCB			On	ner			Lab Name Segurior Address Phone Number Turnaround Time Rush 24 Hour 48 Hour Normat Report to: Comments
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1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 81035

DATE RECEIVED: 06/19/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 06/26/90

CLIENT JOB NO.: 90-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB		Concentration (mg/L)										
#	Sample Identification	Gasoline Range	Diesel Range									
1	MW-3	· ND<1	ND < 1									

mg/L - parts per million (ppm)

Method Detection Limit for Gasoline and Diesel in Water: 1 mg/L QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 10

RPD Diesel = 10

MS/MSD Average Recovery = 93%: Duplicate RPD = 5

d Srna. Ph.D.

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 81035

DATE RECEIVED:06/19/90

CLIENT: Certified Environmental Consulting, DATE REPORTED:06/26/90

CLIENT JOB NO.: 90-57-237

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

LA8 #	Sample Identification			Ethyl Benzene	·
1	MW-3	ND<0.3	ND<0.3	ND<0.3	ND<0.3

ug/L - parts per billion (ppb)

Method Detection Limit in Water: 0.3 ug/L

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%

MS/MSD Average Recovery = 104%: Duplicate RPD = 2

140 West Industrial Way, Be Ofc. (707) 745-0171 (800)	nmental Consulting, Inc nicia, CA, 94510-10 447-0171 Pax. (70	= 016	-0163					•	Cl	hai	n c	of (Cus	sto	dy	R		ord	6/22/20 0 1 1
l Samplar's Signalifica I I I	Parker Parker Parker Incation MW-1 MW-5	K ^t	K ₁	Oli and Grease CAM Metals (18)		Pr. Pollutani Metals (13)	Base.Neu/Acids (Organic)			Volitile Organics (624)	Asbestos	PCB			Out	ner			Phone Number Turnaround Time [Rush 24 Hour 48 Hour Nonnal Report to:
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1555 Burke, Unit I · San Francisco, Ca 94124 · Phone (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 81059

DATE RECEIVED: 06/22/90

CLIENT: ENVIRONMENTAL CONSULTING, INC.

DATE REPORTED: 06/26/90

CLIENT JOB NO.: 90-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB		Concentrati	on (mg/L)
#	Sample Identification	Gasoline Range	Diesel Range
	_ = = = = = = = = = = = = = = = = = = =		
1	MW-1	· ND<1	ND<1
2	MW-2	ND<1	ND<1
3	MW-5	ND<1	ND<1

mg/L - parts per million (ppm)

Method Detection Limit for Gasoline and Diesel in Water: 1 mg/L QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 8

RPD Diese1 = 6

MS/MSD Average Recovery = 133%: Duplicate RPD = 3

Richard Srna, Ph.D.

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 81059

DATE RECEIVED:06/22/90

CLIENT: ENVIRONMENTAL CONSULTING, INC.

DATE REPORTED:06/26/90

CLIENT JOB NO.: 90-57-237

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

		Concentration(ug/L)								
LAB #	Sample Identification	Benzene	Toluene	Ethyl Benzene	Xylenes					
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1	MW-1	ND<0.3	ND<0.3	ND<0.3	ND<0.3					
2	MW-2	ND<0.3	ND<0.3	ND<0.3	ND<0.3					
3	MW-5	ND<0.3	ND<0.3	ND<0.3	ND<0.3					

ug/L - parts per billion (ppb)

Method Detection Limit in Water: 0.3 ug/L

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%
MS/MSD Average Recovery = 105%: Duplicate RPD = <3

6 1 11

Richard Srna.

Project Number: Brokery Learms Haver Contact: Address: Sampler's Nume Scott Parker Sampler Date Time Location BFMW-3 73/50 Muy-3 KXX Method of Shipment (Leafunger) Received by Recei	Ofc. (707)	Industrial 745-017	Way, Bei 1 (800)	nicia, CA, 447-0171	94510-101 Fax. (707	745	105 1.0753							C	hai	n (of (Cus	stc	ody	R			1 . 7/3/90 Sheet 1 of 1
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1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 81105

DATE RECEIVED: 07/03/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 07/12/90

CLIENT JOB NO.: 90-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 5030 and 8015

LAB # 	Sample Identification	Concentration (mg/L) Gasoline Range
1.	RF MW-3	. 0.10*

mg/L - parts per million (ppm) * No Gasoline Pattern Present.

'ethod Detection Limit for Gasoline in Water: 0.05 mg/L

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = 6% MS/MSD Average Recovery = 100%: Duplicate RPD = 3%

Richard Srna, Ph.D.

1555 Burke, Unit I · San Francisco, Ca 94124 · Phone (415) 647-2081 CERTIFICATE OF ANALYSIS

LABORATORY NO.: 81105

DATE RECEIVED: 07/03/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 07/12/90

CLIENT JOB NO.: 90-57-237

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB		Concentration (mg/L)
#	Sample Identification	Diesel Range
1	BF MW-3	. ND<1

Method Detection Limit for Gasoline and Diesel in Water: 1 mg/L

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 10%

RPD Diesel = 10%

MS/MSD Average Recovery = 102%: Duplicate RPD = 2%

Richard Srna. Ph.D.

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081 CERTIFICATE OF ANALYSIS

LABORATORY NO.: 81105

DATE RECEIVED: 07/03/90

CLIENT: Certified Environmental Consulting, DATE REPORTED: 07/12/90

CLIENT JOB NO.: 90-57-237

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

# 	Sample Identification	Benzene	Toluene	Ethyl Benzene	Xylenes						
1	BF MW-3	ND<0.3	ND<0.3	ND<0.3	ND<0.3						

ug/L - parts per billion (ppb)

Method Detection Limit in Water: 0.3 ug/L

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%

MS/MSD Average Recovery = 109

%: Duplicate RPD = <4%

Richard Srna, Ph.D.

May 14, 1990

Ref No. 89-57-237

Mr. Tim Blaney Berkeley Land Company 1211 Newell Avenue, Suite 120 Walnut Creek, CA 94596

Subject:

23555 Saklan Avenue, Hayward; Diesel Fuel Release Disclosure to

Regulatory Agencies

Dear Mr. Blaney:

As indicated in Certified Environmental Consulting, Inc.'s (CEC) report of March 26, 1990 titled "Initial Site Survey and Preliminary Assessment Plan for Hayward Site" diesel fuel was found on top of the water in a well located on the subject property. This can be interpreted to be a spill or accidental release of a hazardous substance to the waters of the State.

Even though there is no evidence that Berkeley Land Company (BLC) may be responsible for the presence of the diesel in the water, BLC has an obligation to report the release to the appropriate environmental regulatory agencies. Failure to report the release can lead to civil and/or criminal penalties.

The report usually must be made by the "owner or operator" of the facility. The agency designated to receive the report varies depending upon the reporting requirements. According to Alameda County's letter of October 13, 1989, an unauthorized release report has been filed with the County. This may satisfy some of the notification requirements.

However, failure to notify all appropriate agencies may expose one to civil or criminal liability even though the report has been made to one of the agencies. The reporting obligation can be satisfied initially by a telephone call. A confirming letter that the report was made is advised.

Mr. Tim Blaney Page 2 May 14, 1990

To help you determine who to contact concerning this release CEC has enclosed a spread sheet. Because of complexities of the reporting requirements, CEC recommends that you discuss this letter with your legal counsel. It may be determined by legal counsel that different or additional regulatory agencies need to be notified.

Please call if you have any questions.

Sincerely

Dr. William J. Cornils, CIH

Vice President

WJC:cak

Enclosure

cc: Barry M. Gallagher Gallagher & Patton

REPORTING REQUIREMENTS FOR 23555 SAKLAN AVENUE, HAYWARD

<u>Statute</u>	Paragraph	Reporting Agency	Penalty
California Water Code	13271 & 13272	California Office of Emergency Services (800) 852-7550	Fine between \$500 and \$5,000 per day and/or imprisonment for not more than one year.
California Health and Safety Code	25507	California Office of Emergency Services (800) 852-7550 County of Alameda (415) 271-4320	Fine of \$25,000 per day or imprisonment.
California Health and Safety Code	25189(c),(d), and 25189.2(c)	Department of Health Services (415) 540-2043	Fine between \$1,000 and \$25,000 per day.
California Health Safety Code	25295	County of Alameda (415) 271-4320	Fine between \$500 and \$10,000 per day or imprisonment.